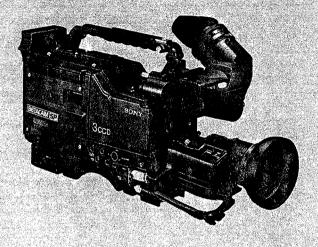
SONY. VTR IN CAMERA

BVW-300AP



BETACAM SP

MAINTENANCE MANUAL Volume 2 2nd Edition (Revised 5) Serial No. 41954 and Higher

X-RAY RADIATION WARNING

Be sure that parts replacement in the high voltage block and adjustments made to the high voltage circuits are carried out precisely in accordance with the procedures given in this manual.

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注意:

NOTE:

下記のシリアルナンバー以降より 基板名が変更になったものがあり ます。従って、このマニュアルに 記載されている基板名称を下記の ように読み替えてご使用下さい。

The names of some boards have been changed. In this manual old names may be read as new names according to the following table.

	
BOARD CHANGE INFORMATION	SERIAL NUMBER
OLD NAME ⇒ NEW NAME	SERIAL NUMBER
PS-162 ⇒ PS-162B	3 0 9 1 1 AND HIGHER: J
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 1 7 1 3 AND HIGHER: UC 4 2 0 9 6 AND HIGHER: EK
$SW - 291 \Rightarrow SW - 291A$	3 0 9 1 6 AND HIGHER: J 1 1 7 4 3 AND HIGHER: UC 4 2 1 3 1 AND HIGHER: EK
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$PA - 1 \ 0 \ 1 \Rightarrow PA - 1 \ 5 \ 5$ $TG - 5 \ 7 \Rightarrow TG - 162, 163 \text{ and } 121$ $TG - 5 \ 7 P \qquad TG - 162P, 163 \text{ and } 121$	3 2 0 0 1 AND HIGHER: J
VIEWFINDER V F - 3 2 V F - 5 0 V R - 6 7 V R - 1 4 9 S W - 2 6 0 A S W - 5 6 2 L P - 4 0 L P - 6 4 L P - 4 2 L P - 6 5 L P - 5 8 L P - 6 6	1 3 0 0 1 AND HIGHER: UC 4 4 0 0 1 AND HIGHER: EK
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 2 0 0 1 AND HIGHER: J 1 3 0 0 1 AND HIGHER: UC

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- 2. PERIODIC CHECK AND MAINTE-NANCE
- 3. SERVICE INFORMATION
- 4. REPLACEMENT OF THE MAJOR PARTS
- 5. LINK SYSTEM ALIGNMENT
- 6. TAPE RUN ALIGNMENT
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- 8. VTR SYSTEM ALIGNMENT

VOL-2

9. BLOCK DIAGRAMS

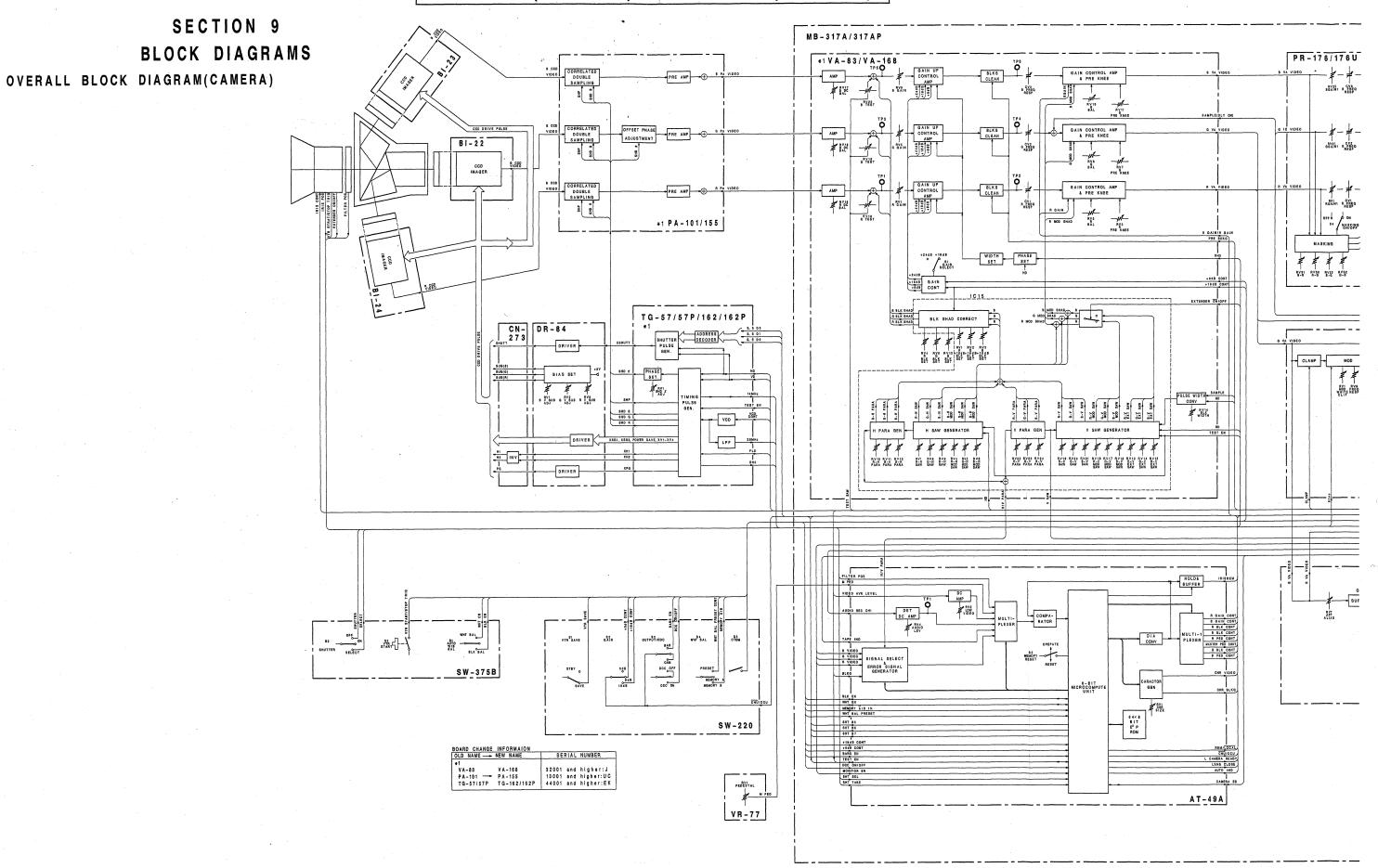
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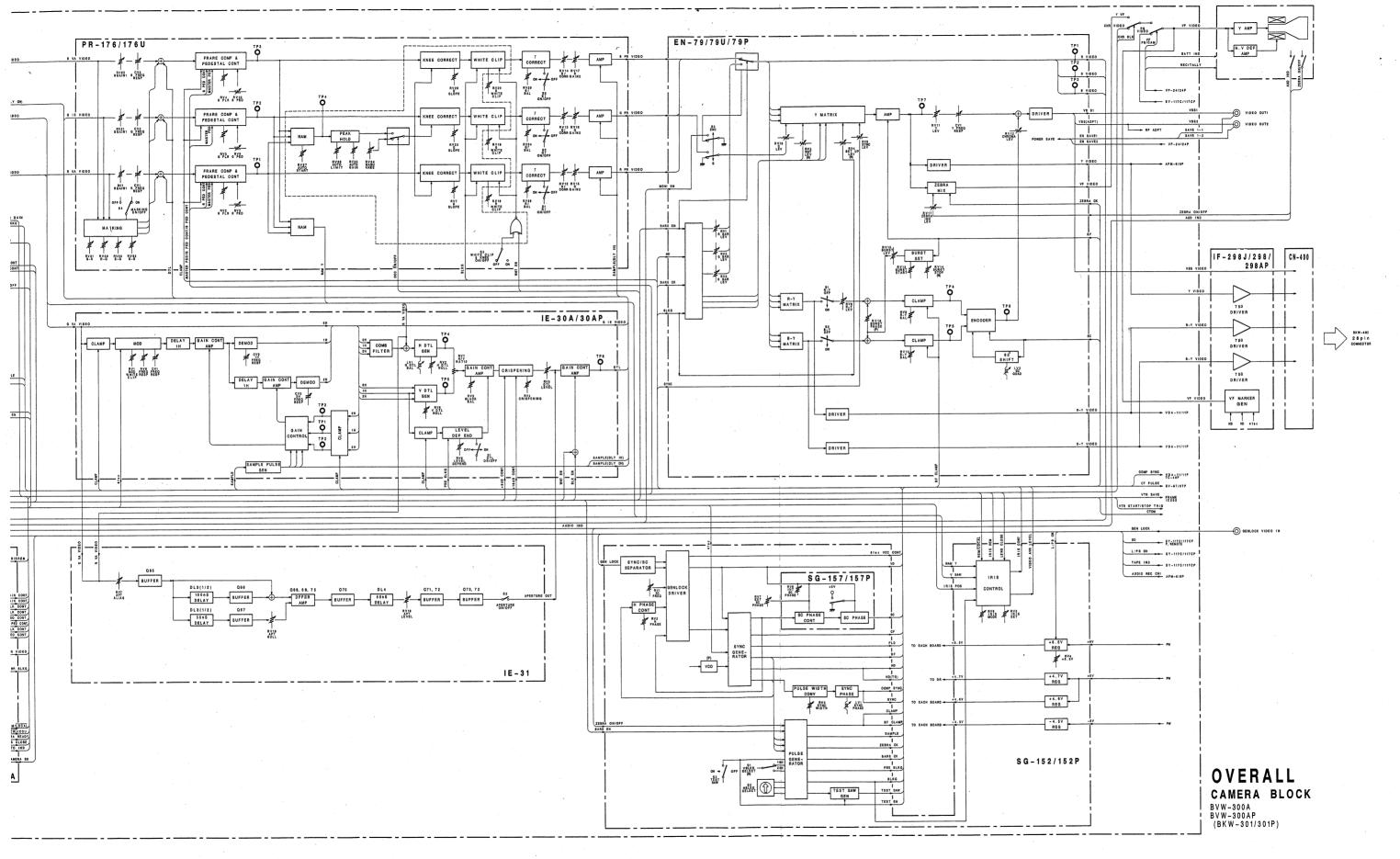
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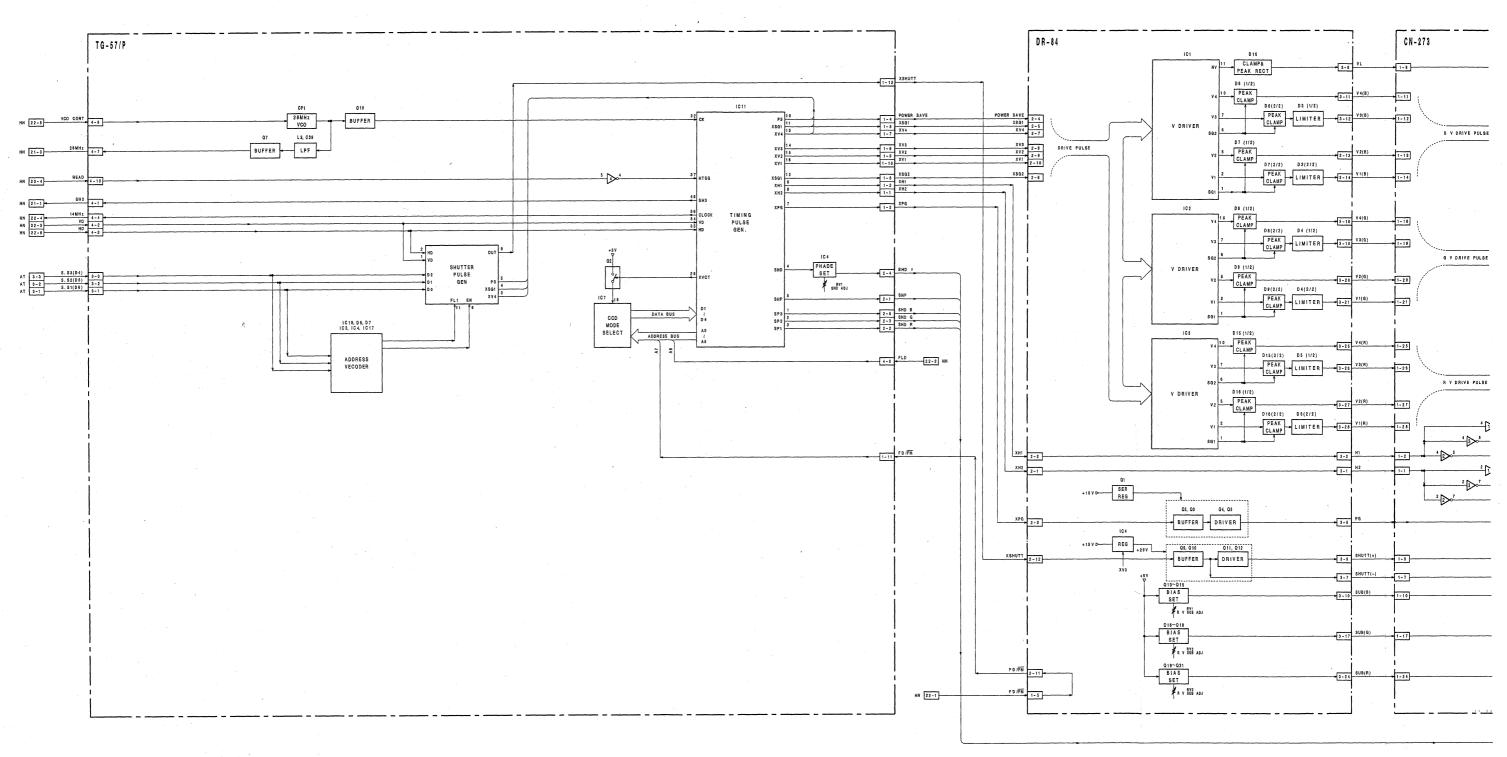
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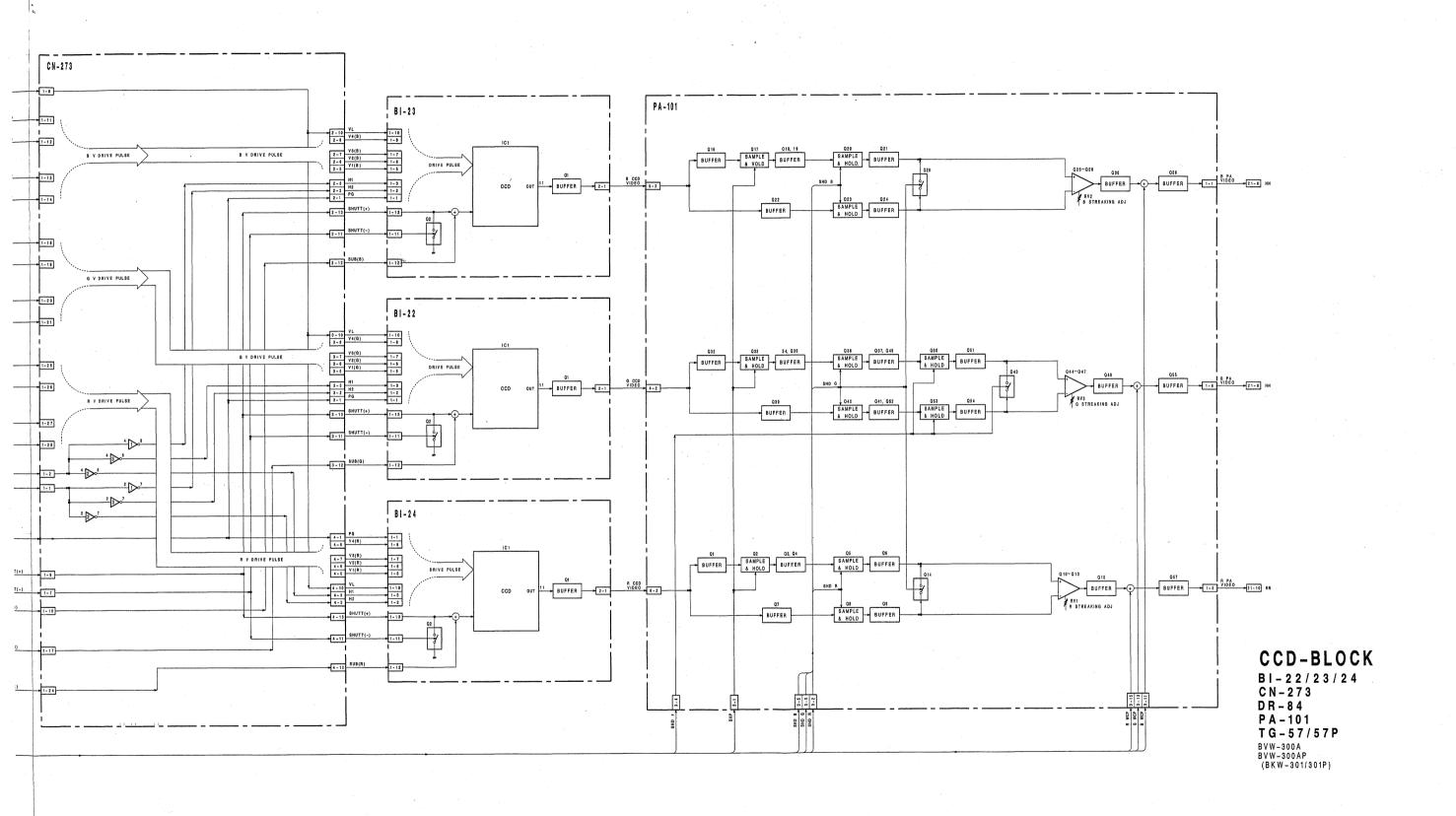




CCD DRIVER CCD BIAS CCD PREAMP TIMING GENERATOR S/N J;30886 through 31999 UC;11638 through 12999 EK;41954 through 43999

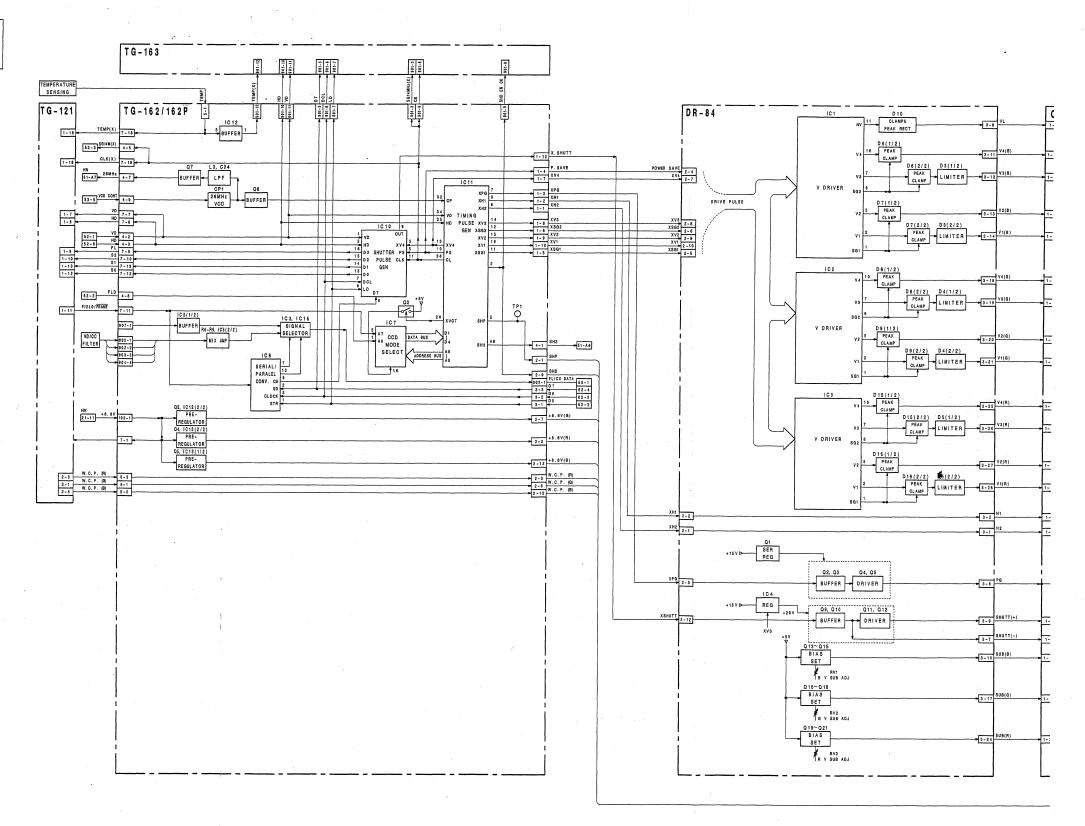


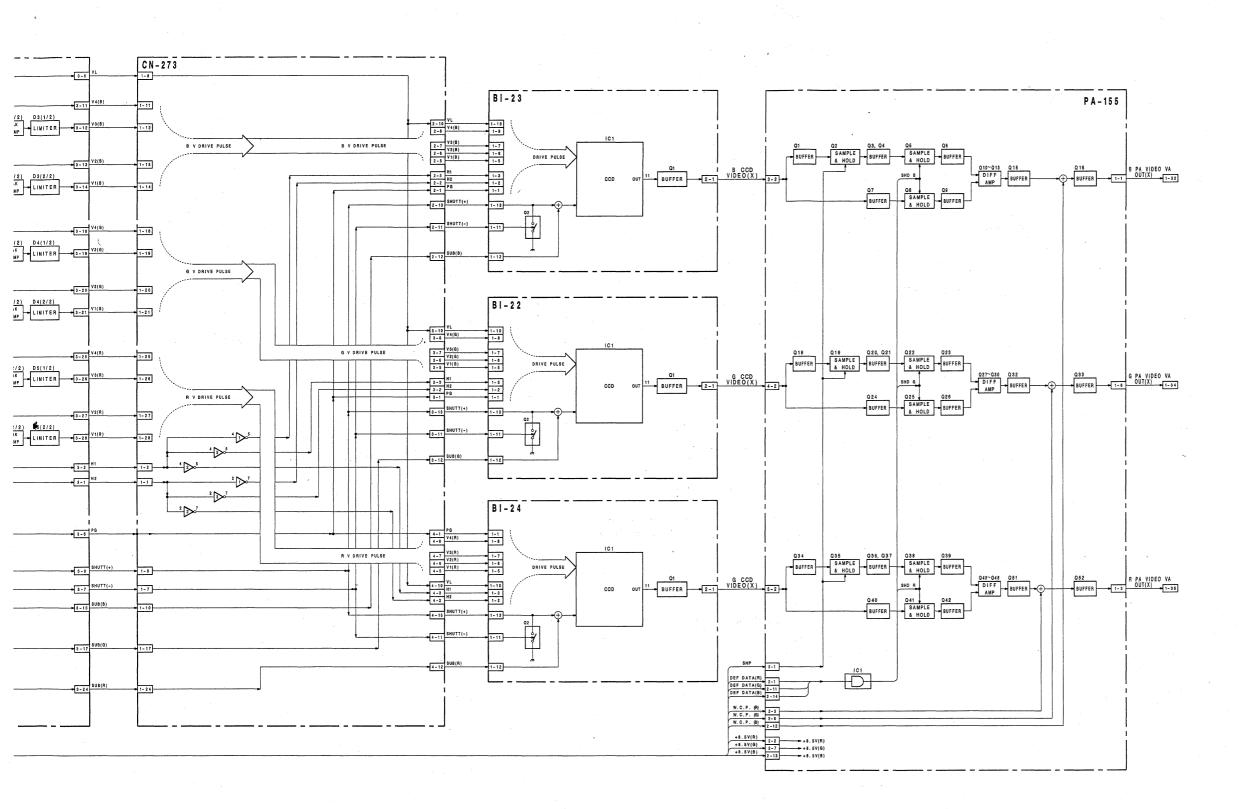
CCD-BLOCK



CCD DRIVER
CCD BIAS
CCD PREAMP
TIMING GENERATOR

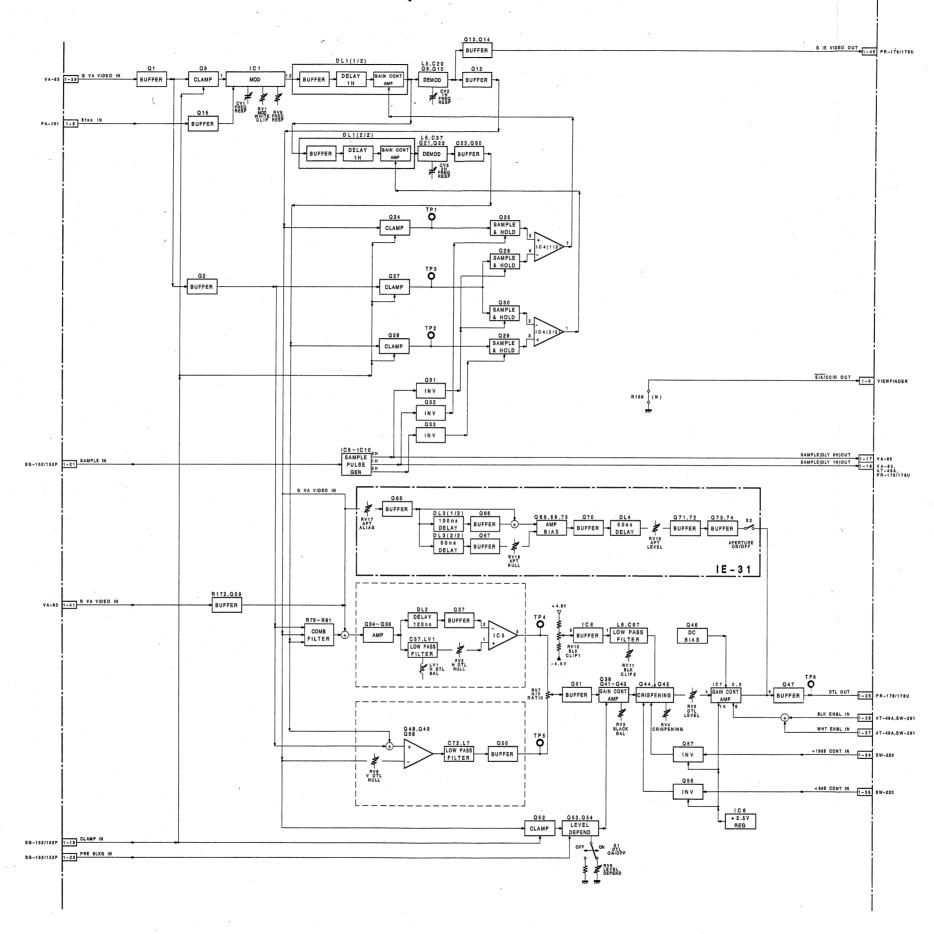
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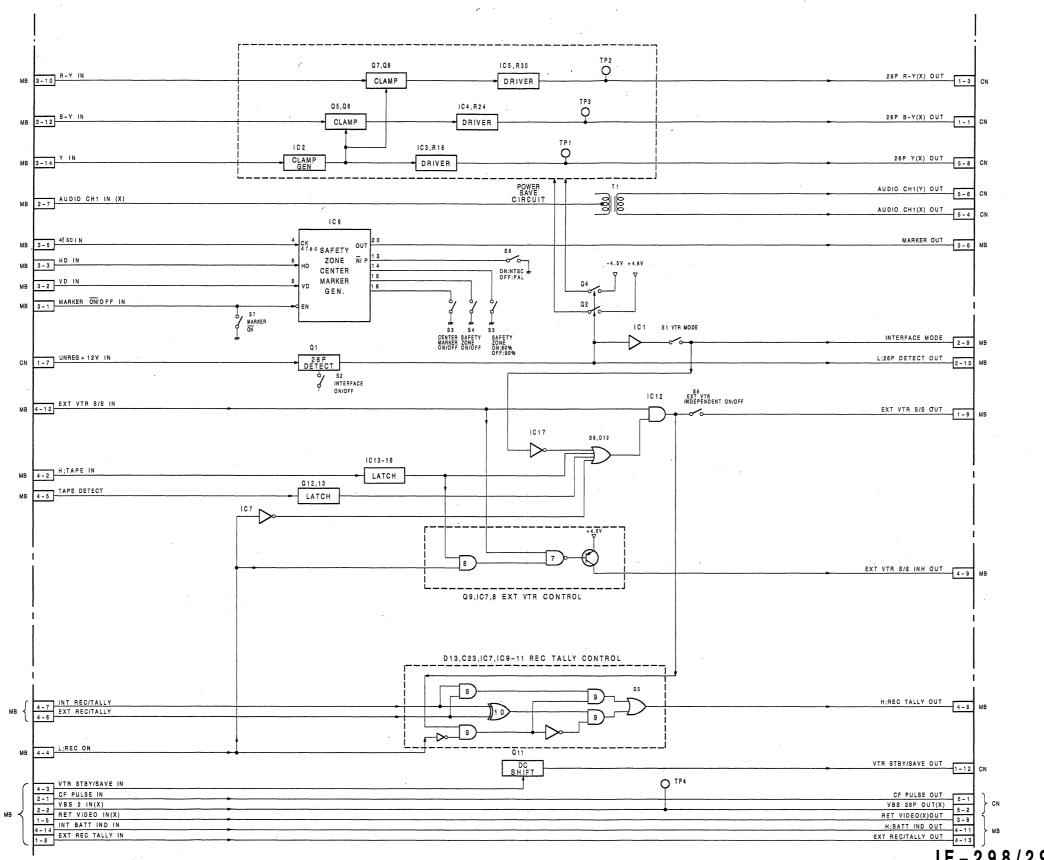
CCD-BLOCK
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DR-84
PA-155
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BVW-300A
BVW-300AP
(BKW-301/301P)

IMAGE ENHANCER



IE-30A/30AP
IE-31
CAMERA BLOCK
BVW-300A
BVW-300AP

INTERFACE

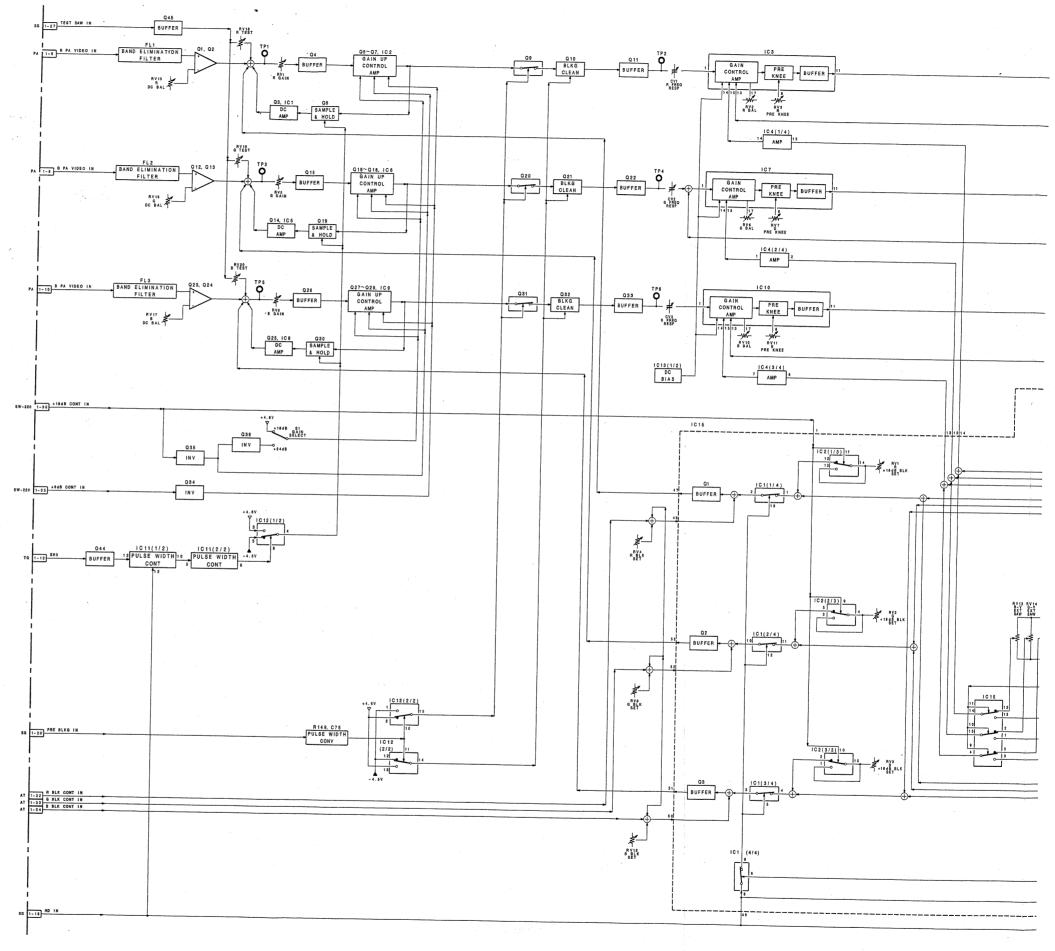


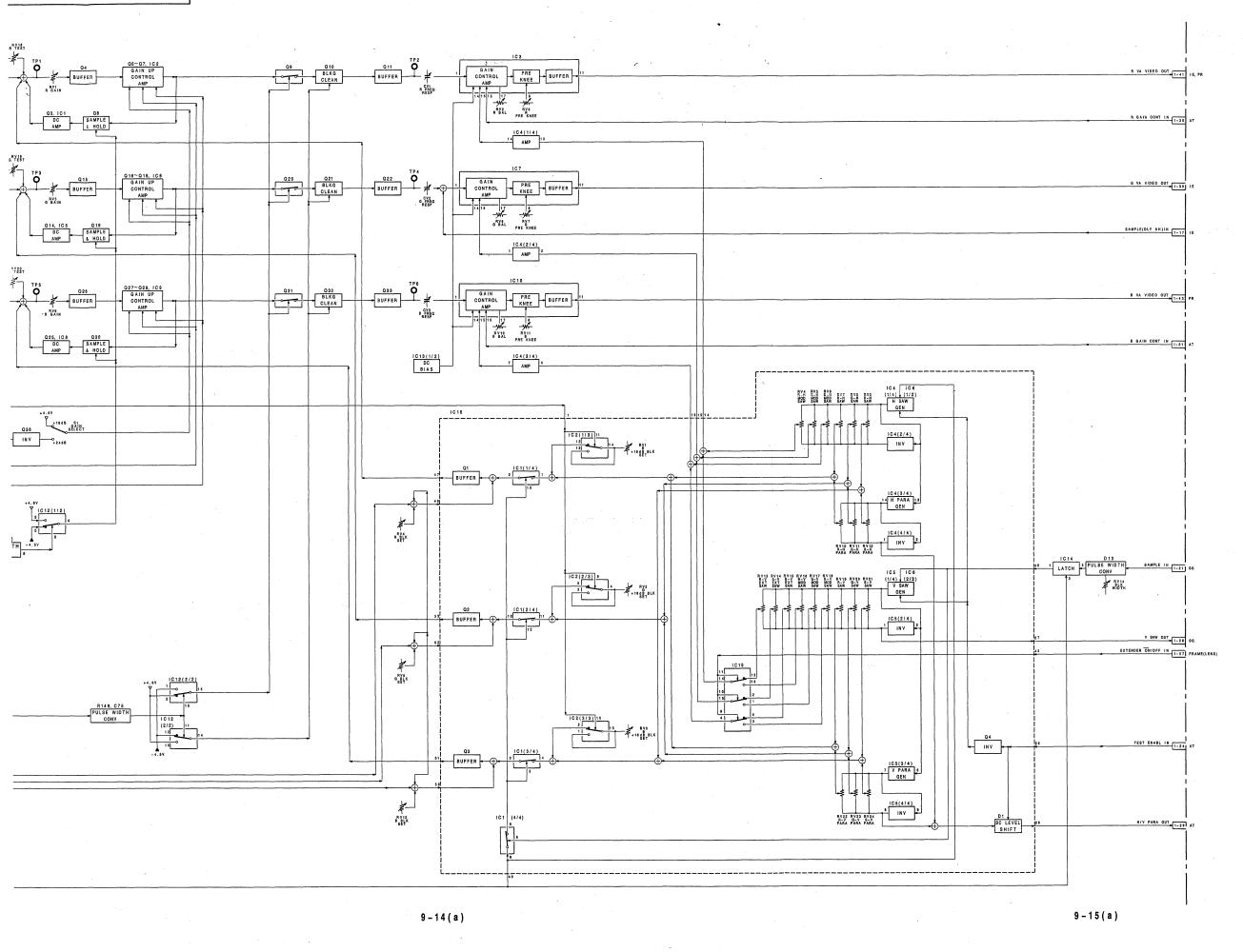
IF-298/298J/298AP BLOCK

BVW-300A

VIDEO AMP, BLACK SET, COMPE

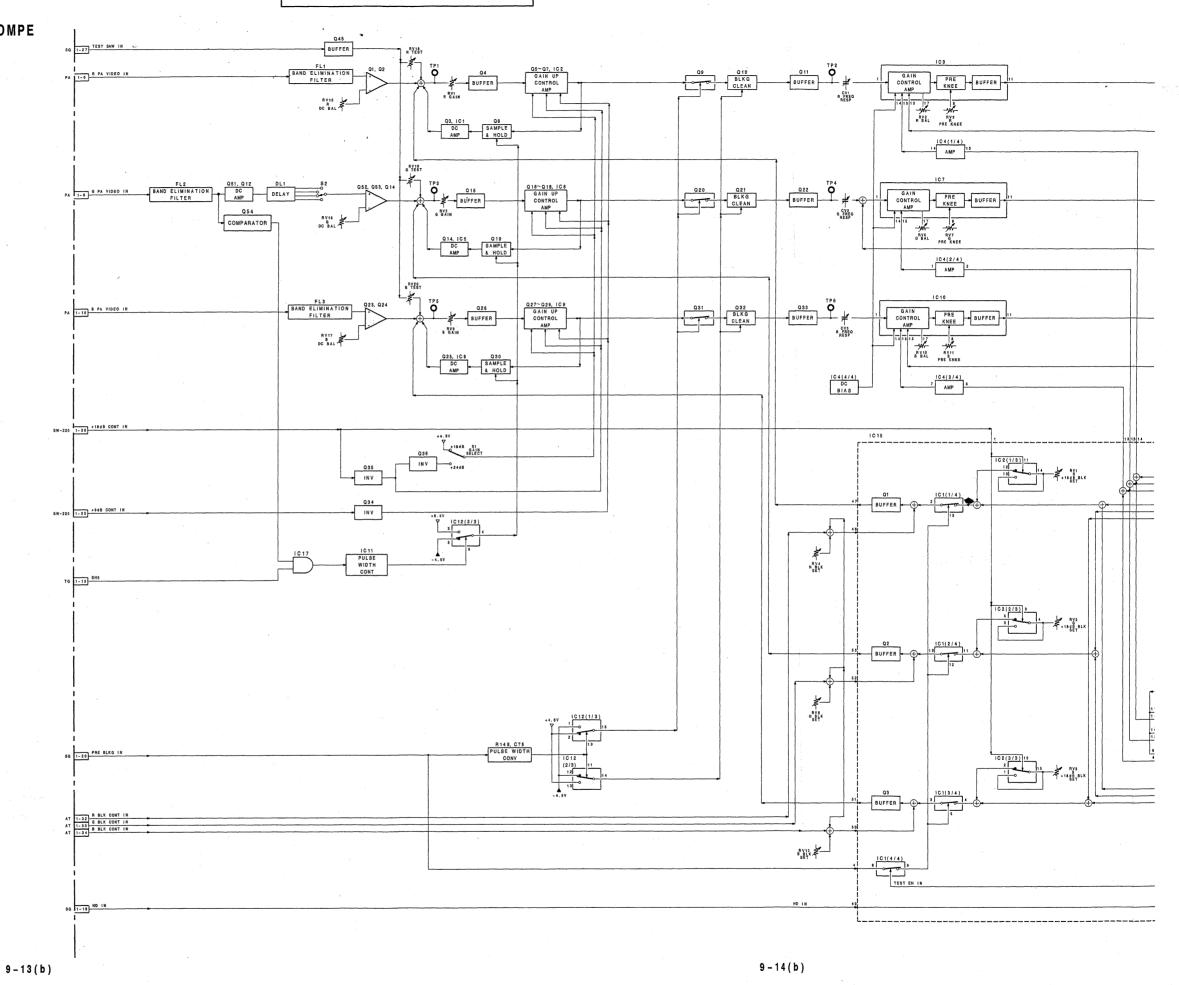
S/N J;30886 through 31999 UC;11638 through 12999 EK;41954 through 43999

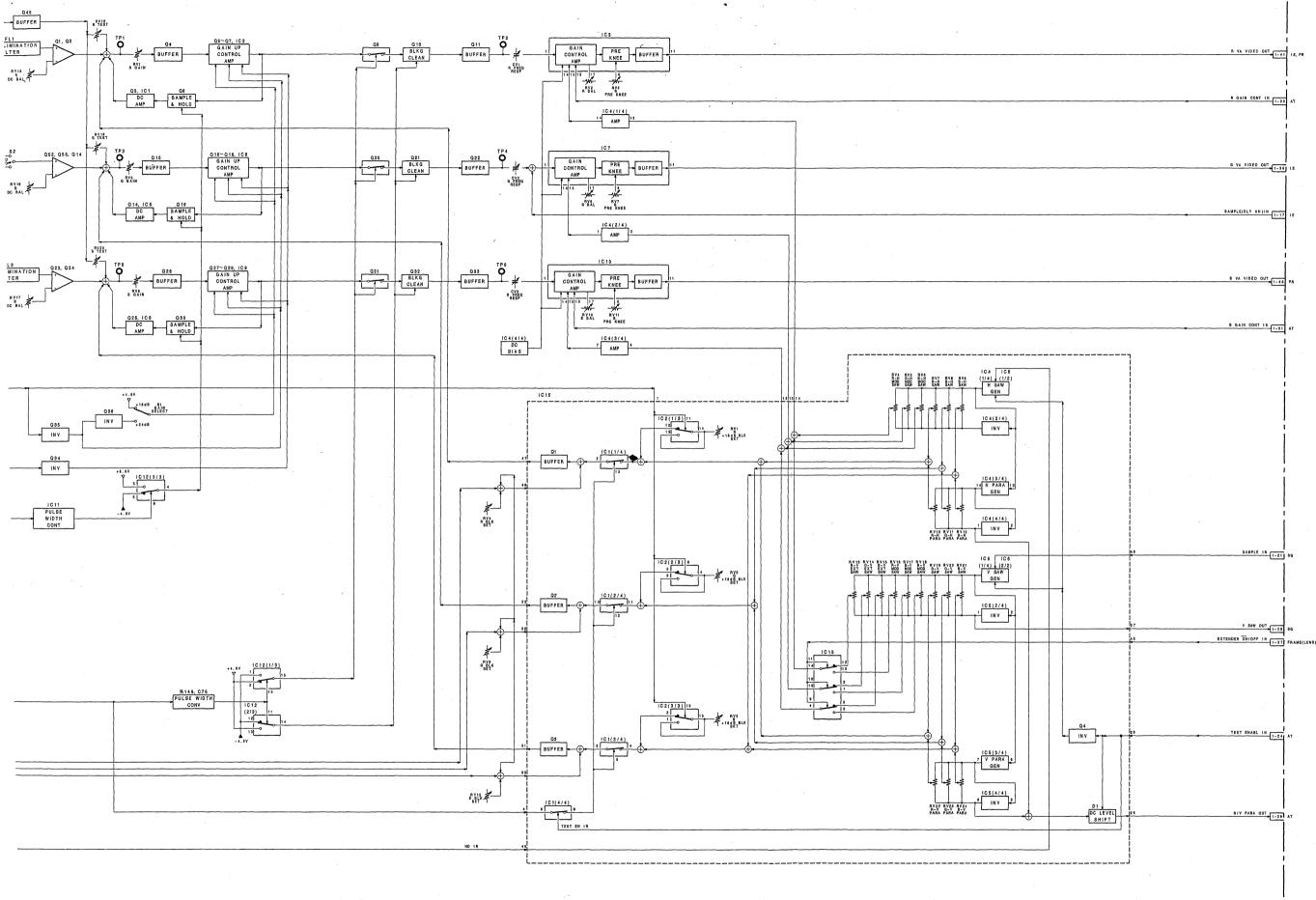




VA-83 CAMERA BLOCK BVW-300A BVW-300AP







V A - 168

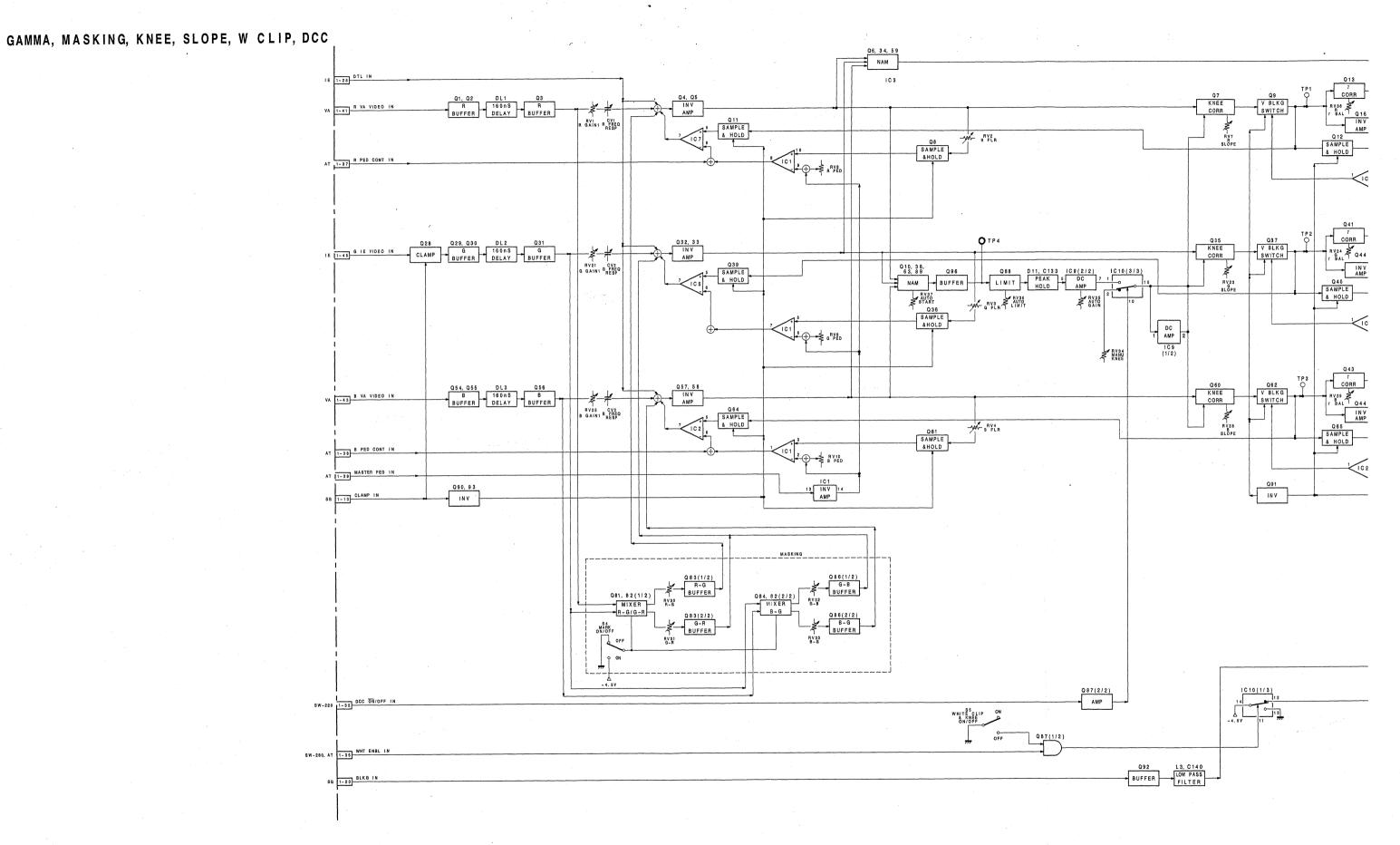
CAMERA BLOCK

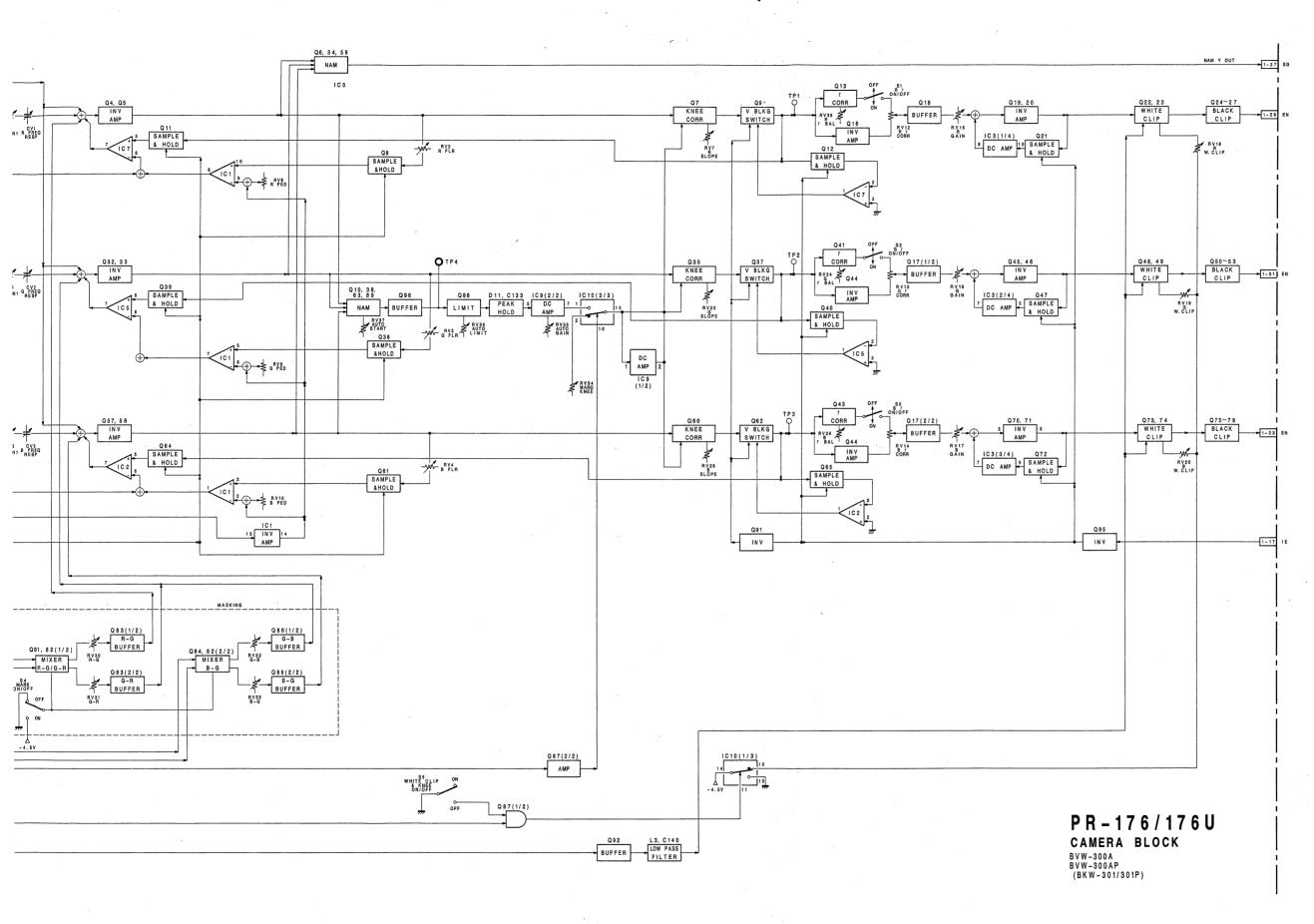
BVW-300A

BVW-300AP
(BKW-301/301P)

9-14(b)

9 - 15 (b)





Q32 BUFFER

RV21 B-Y LEV

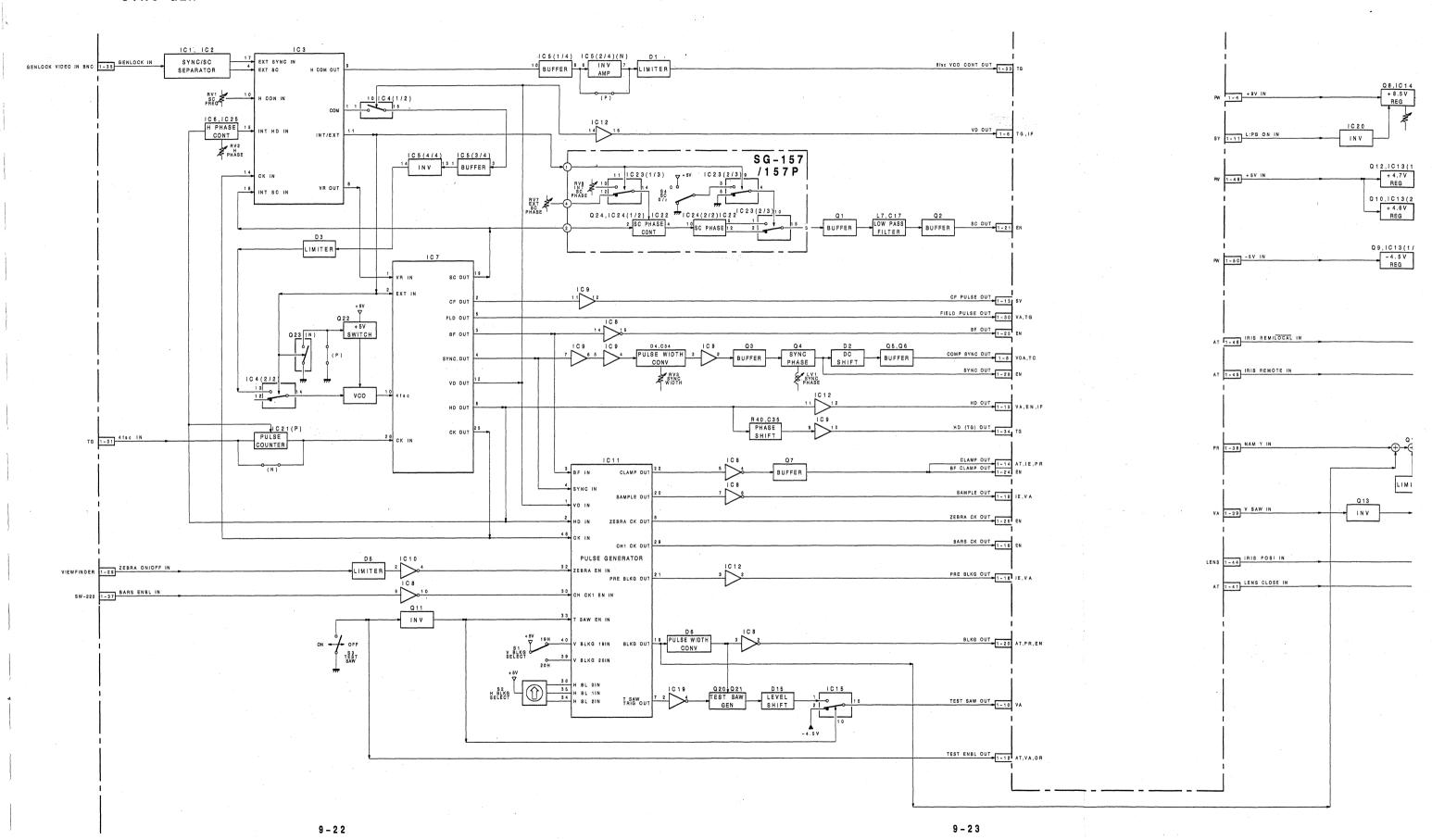
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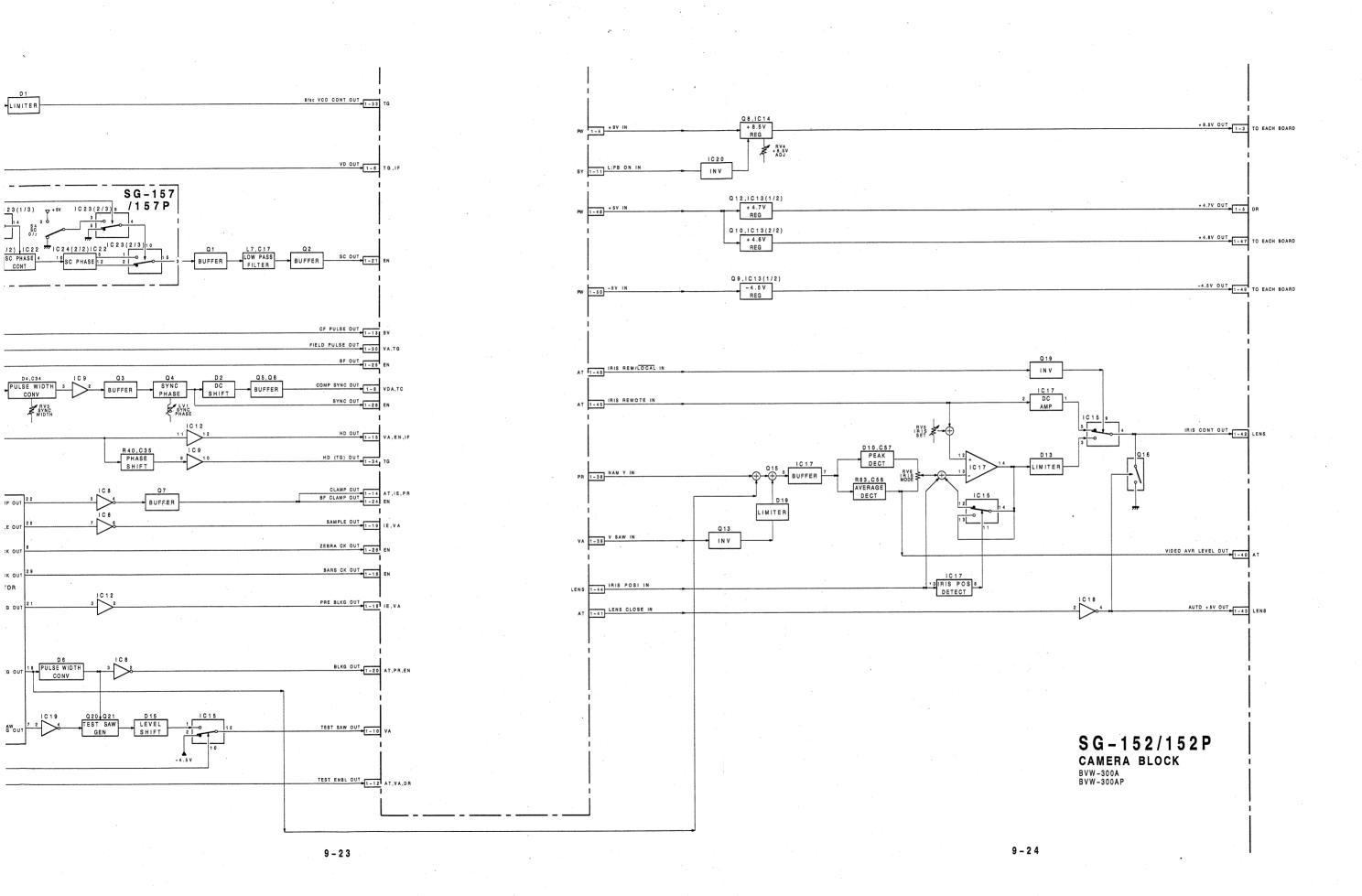
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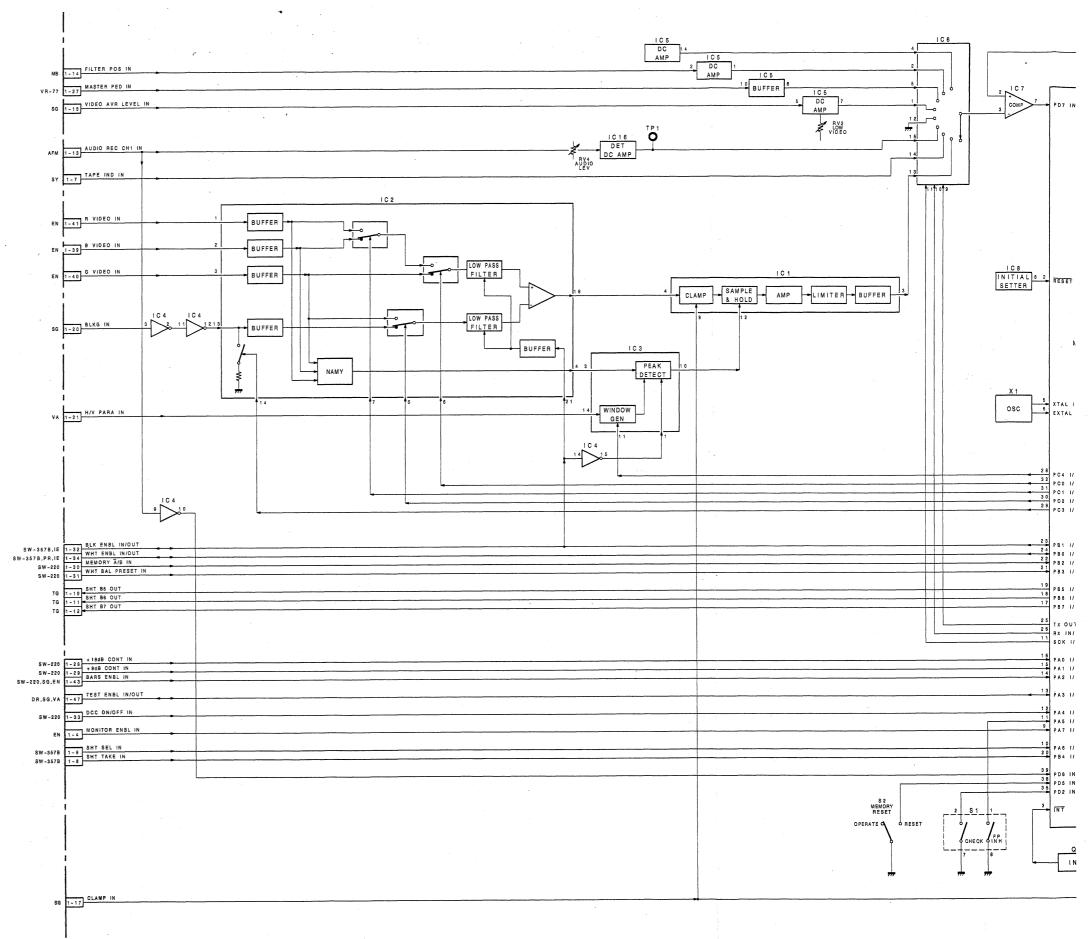
E 14 - / 3 F

SYNC GEN

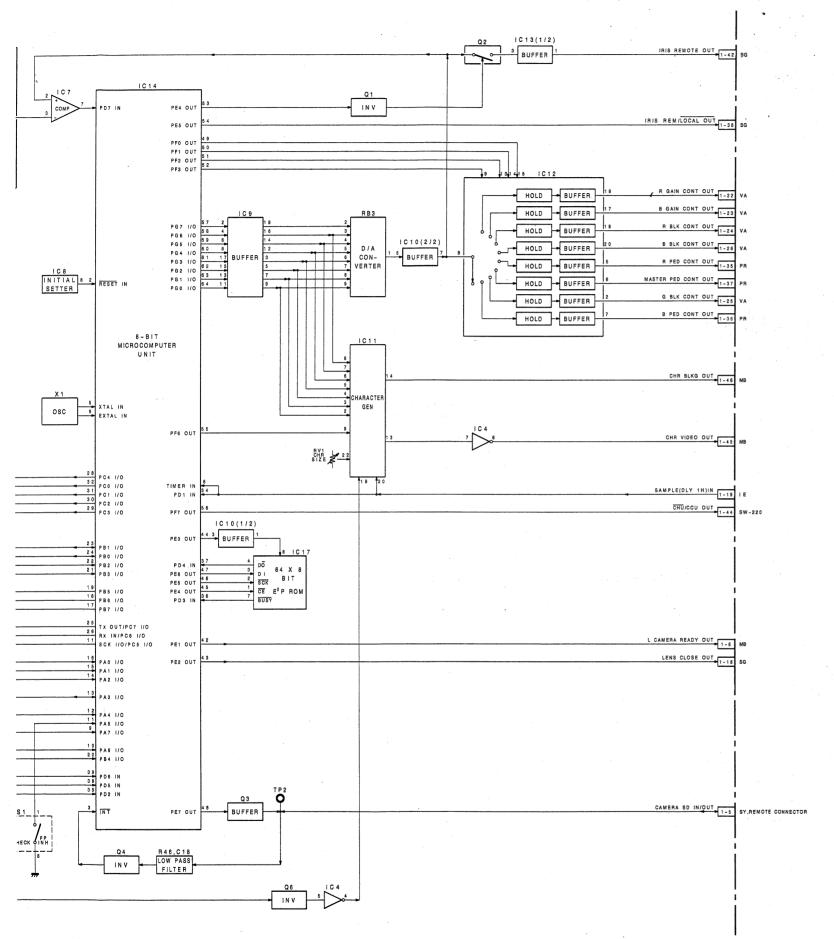




AUTO W/B, CHARA GEN, SYS-CON

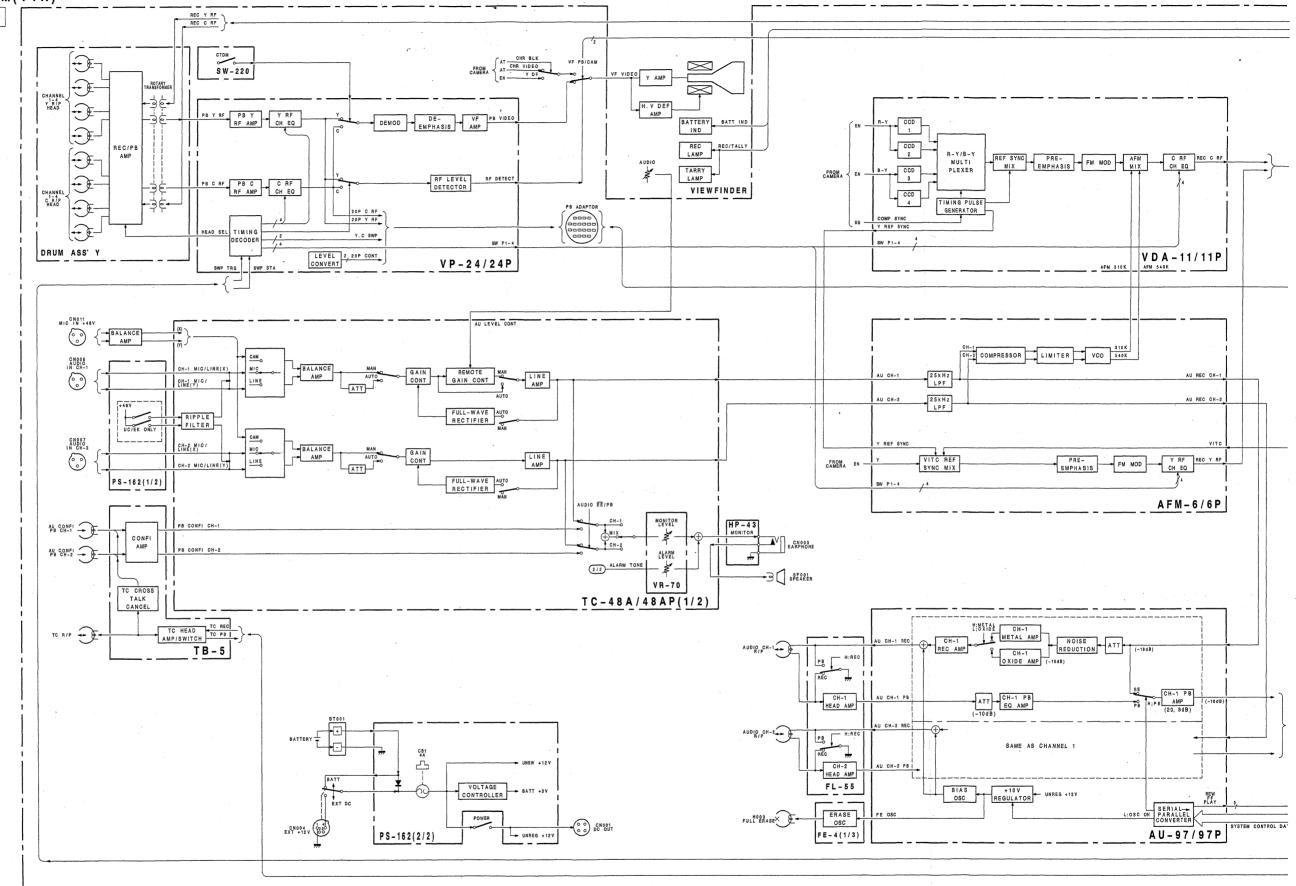


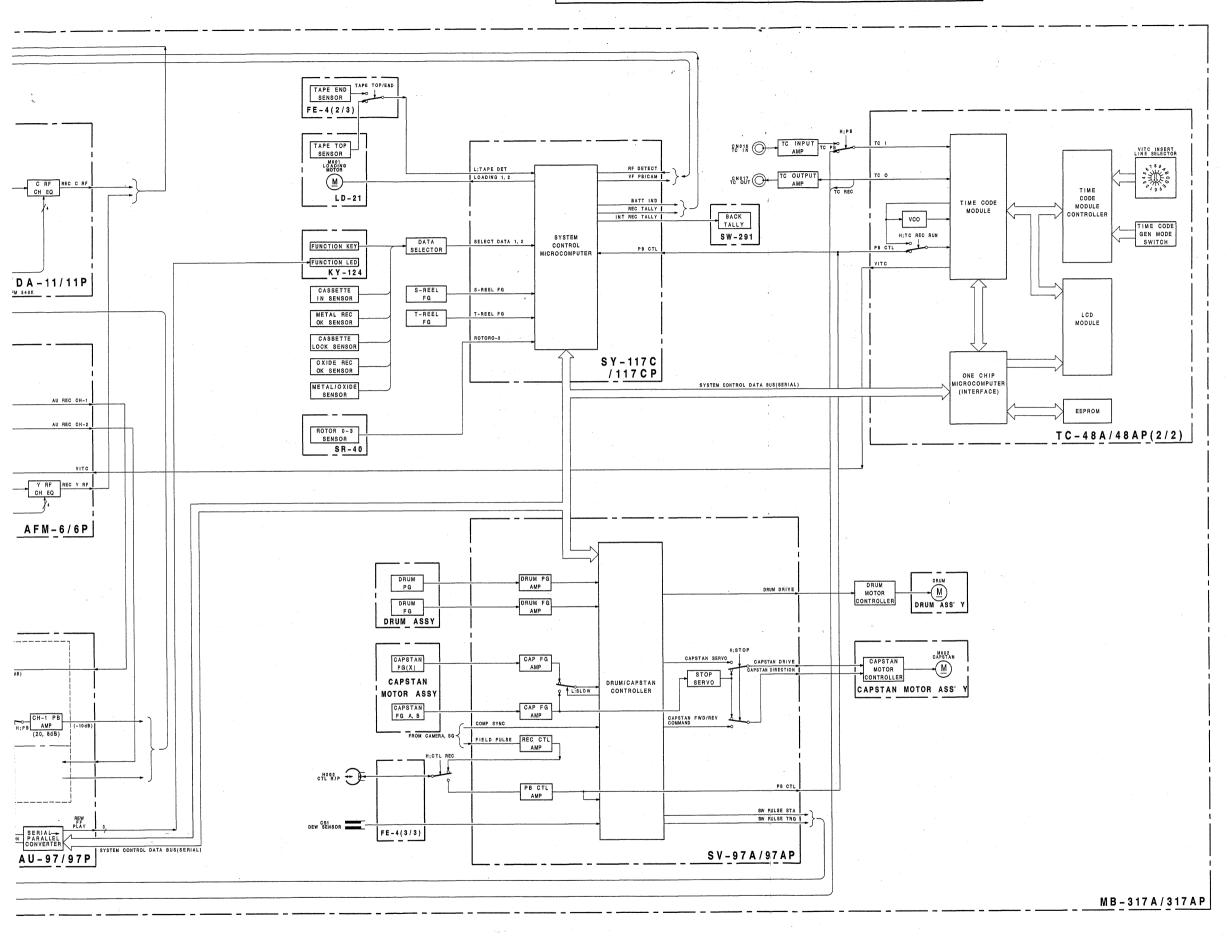
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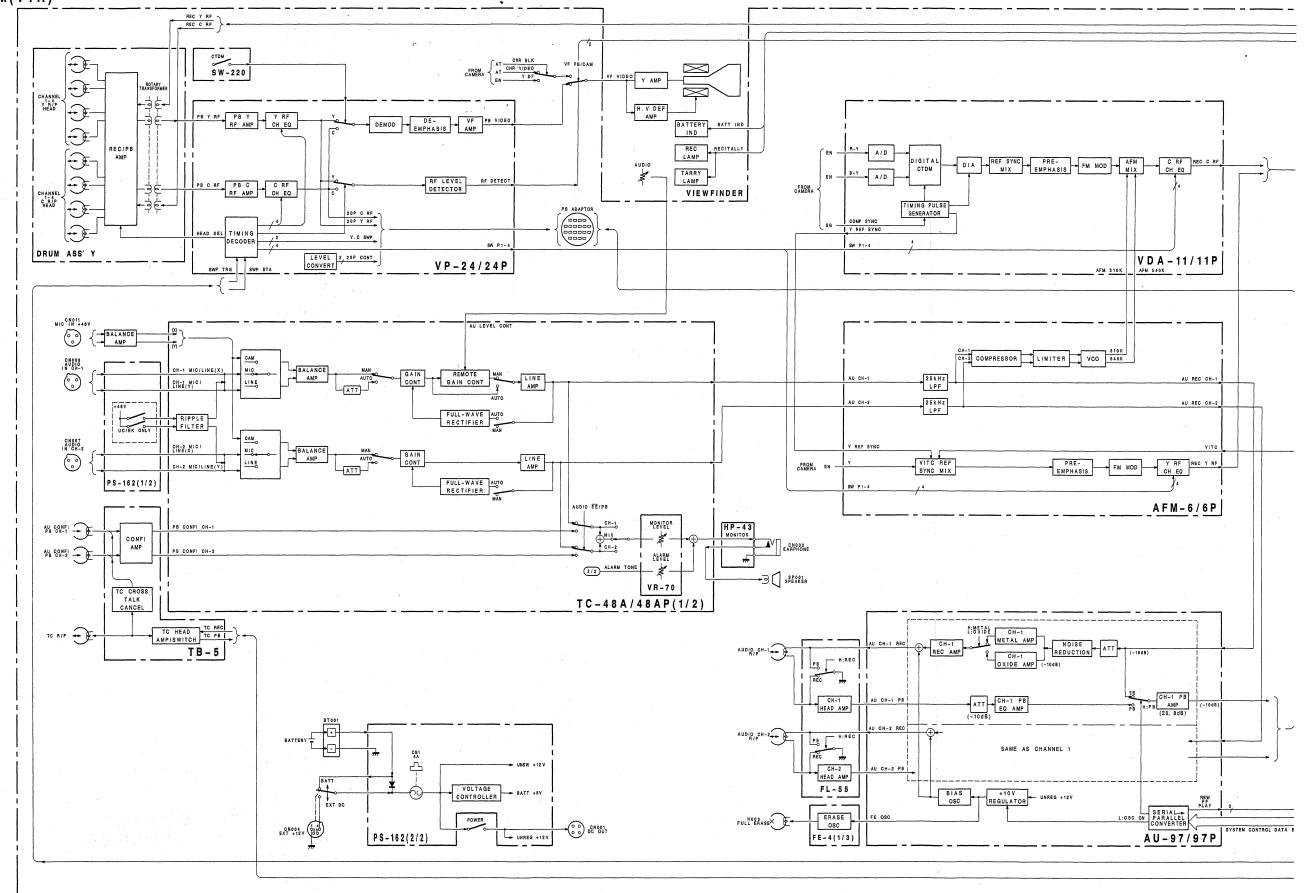
AT-49A
CAMERA BLOCK
BVW-300A
BVW-300AP

S/N;41954 through 44160

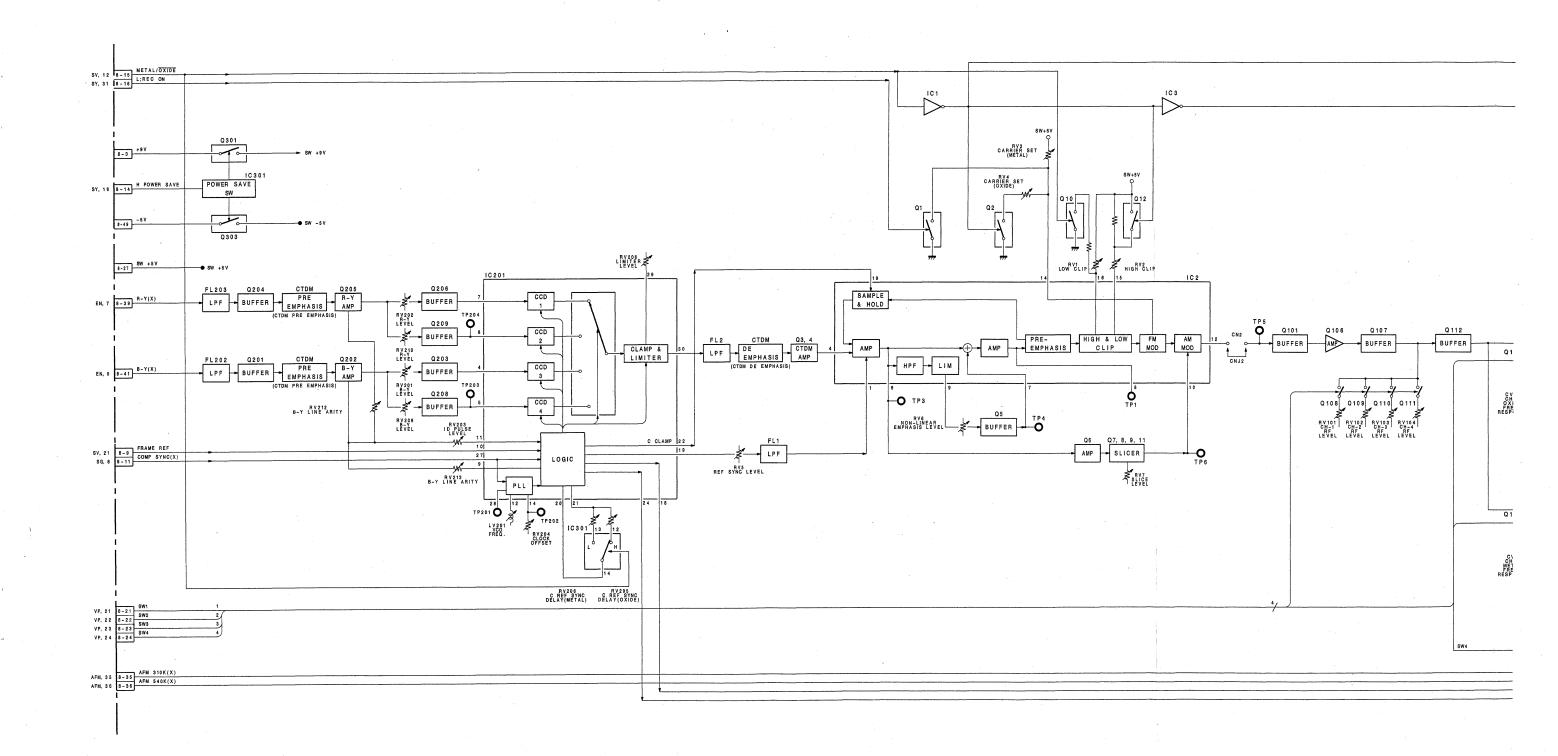


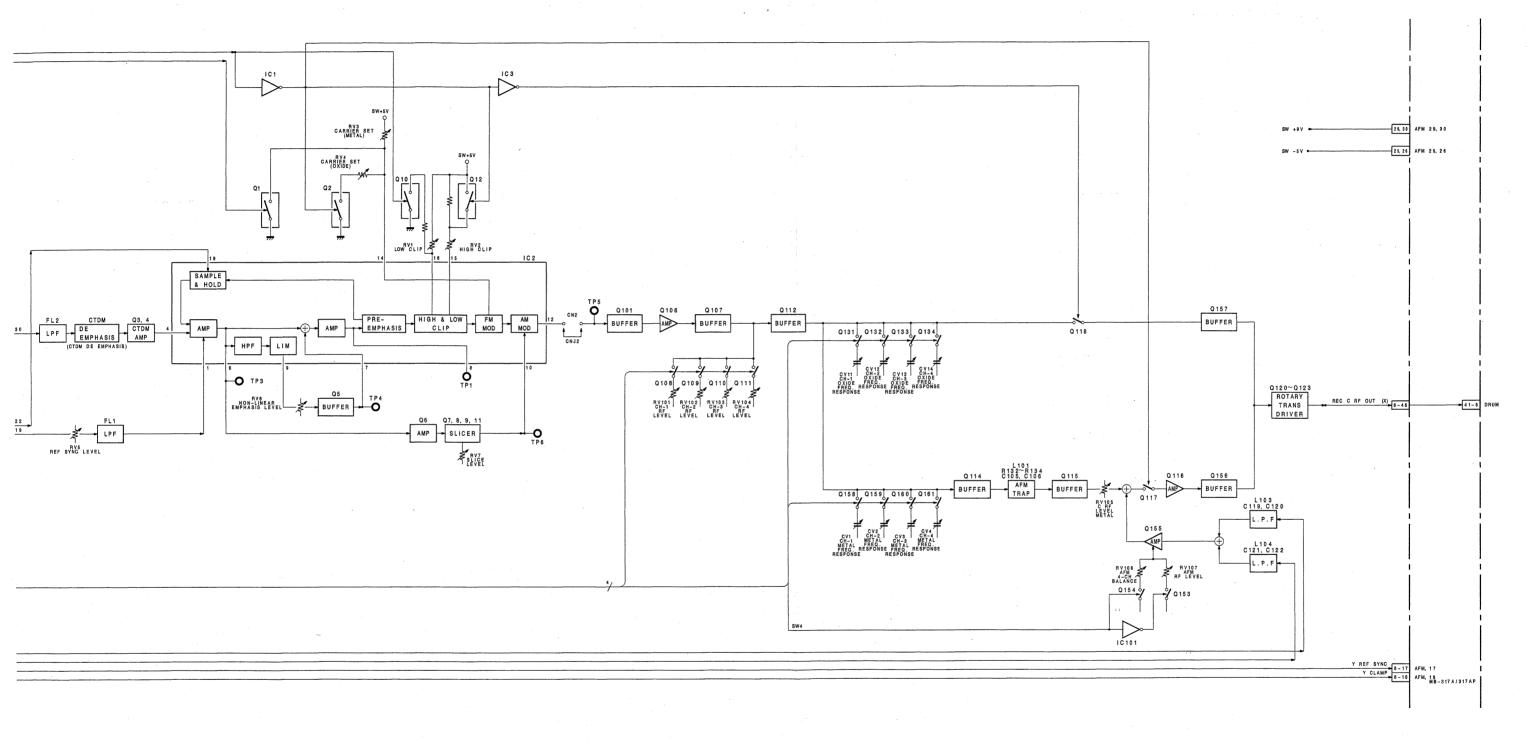


OVERALL VTR BLOCK BVW-300A BVW-300AP S/N;44161 and higher

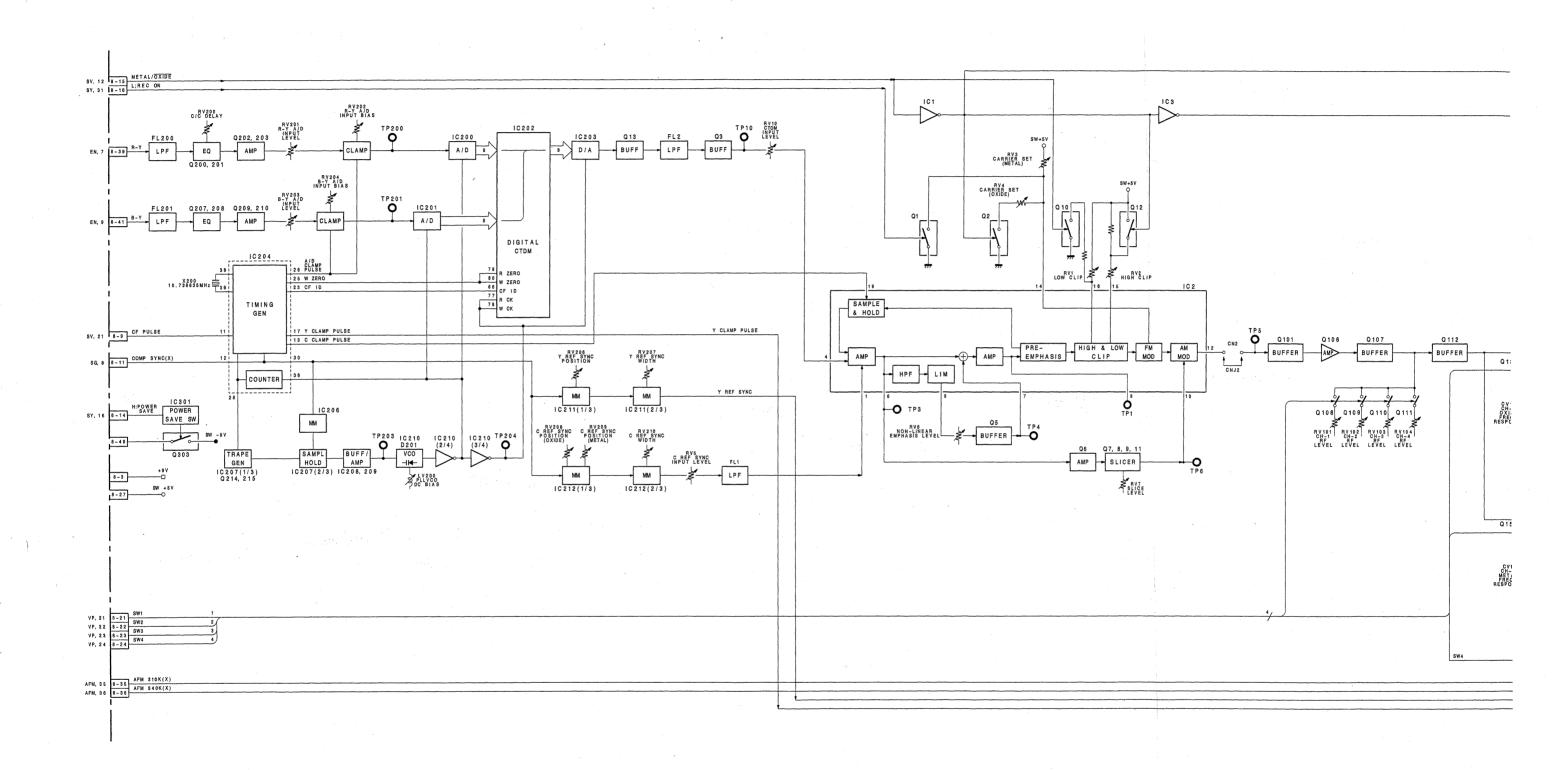


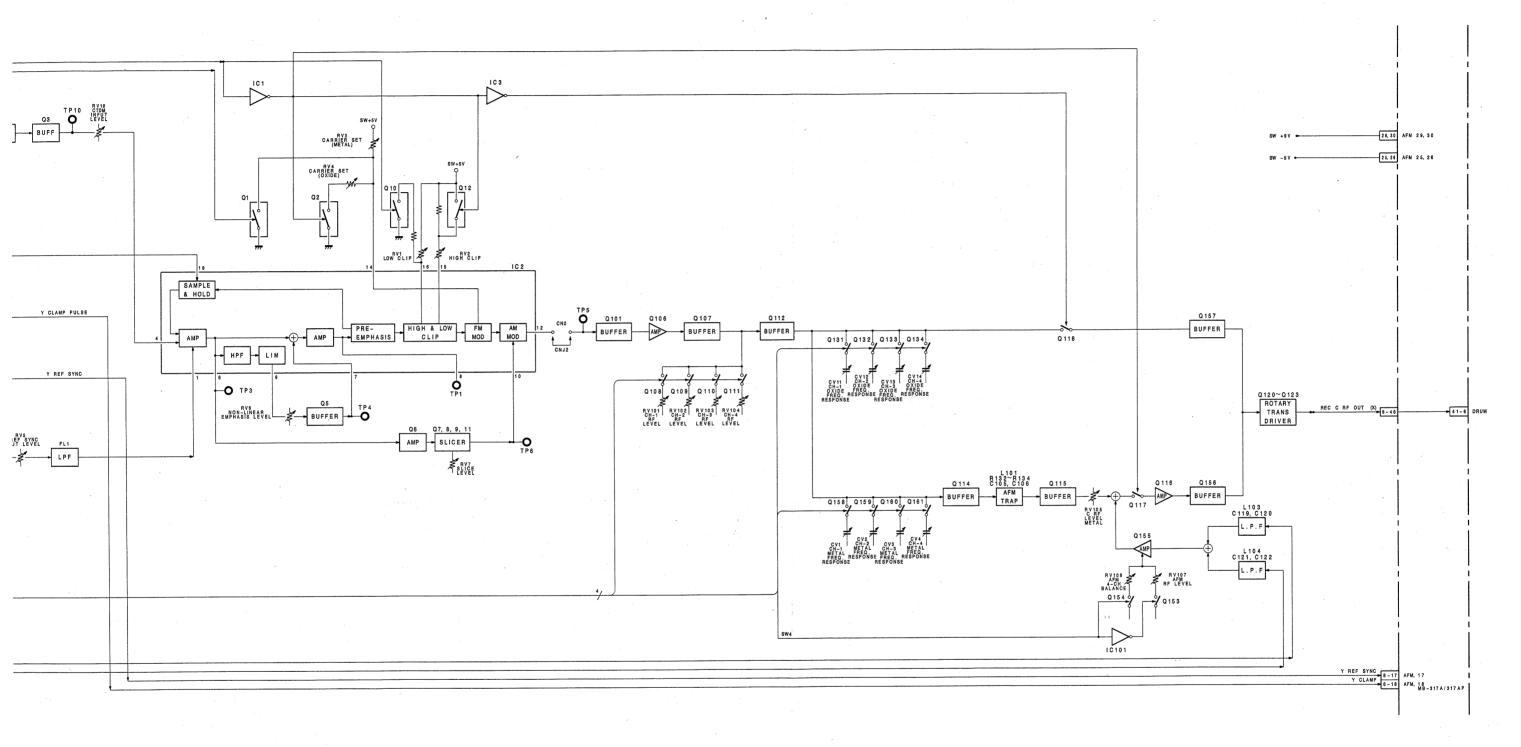
OVERALL VTR BLOCK BVW-300A BVW-300AP



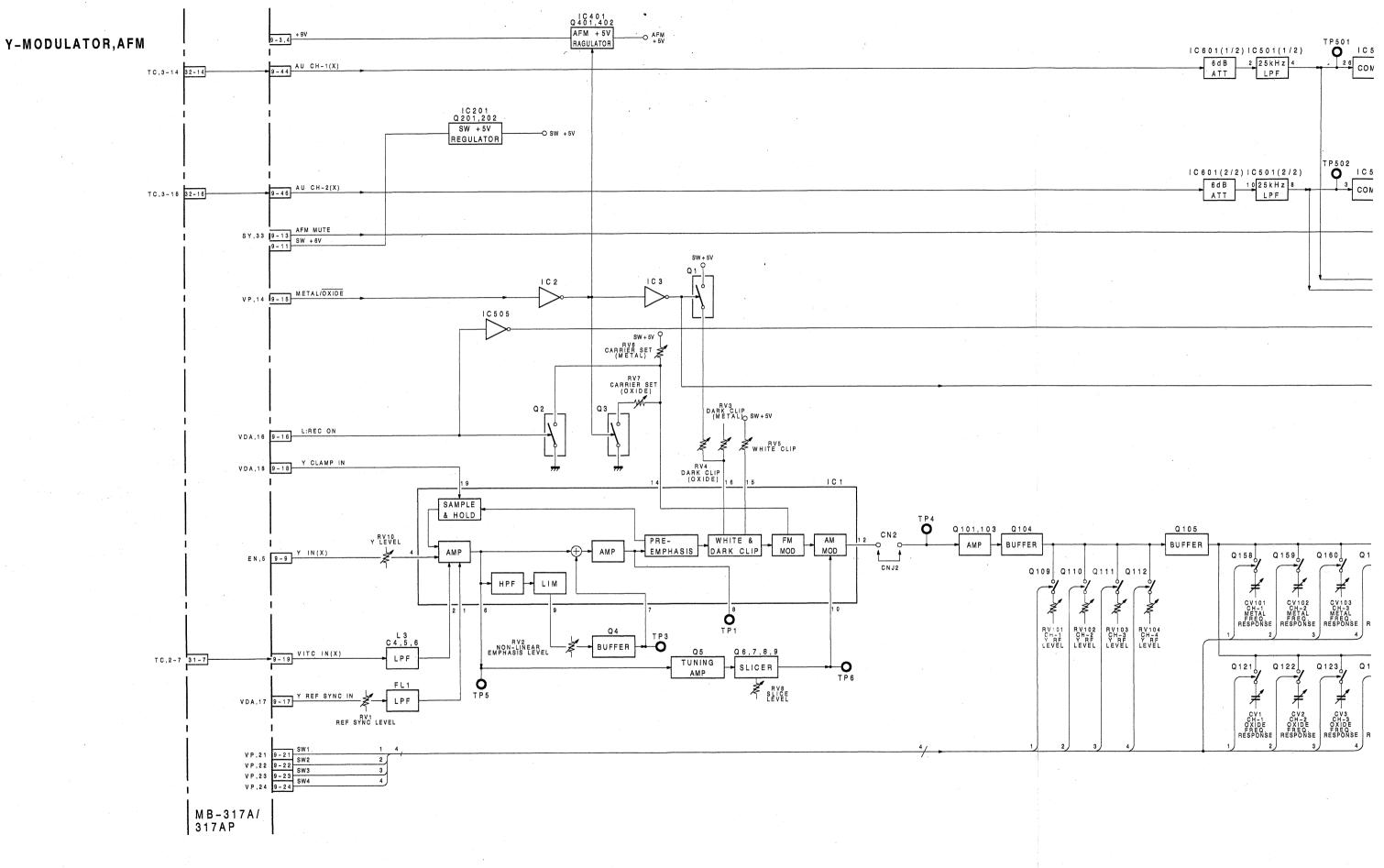


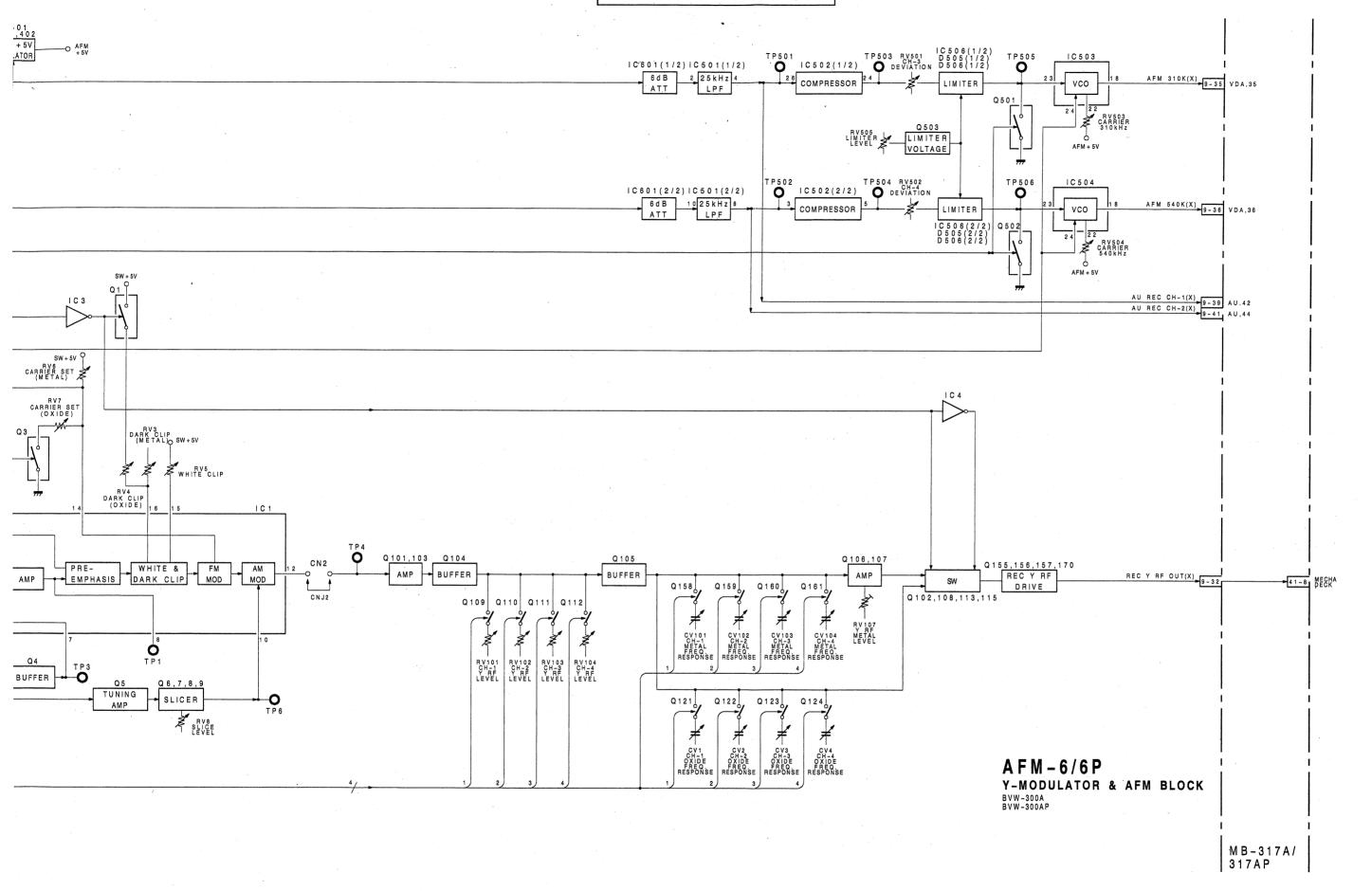
VDA-11/11P
VIDEO BLOCK
BVW-300A
BVW-300AP

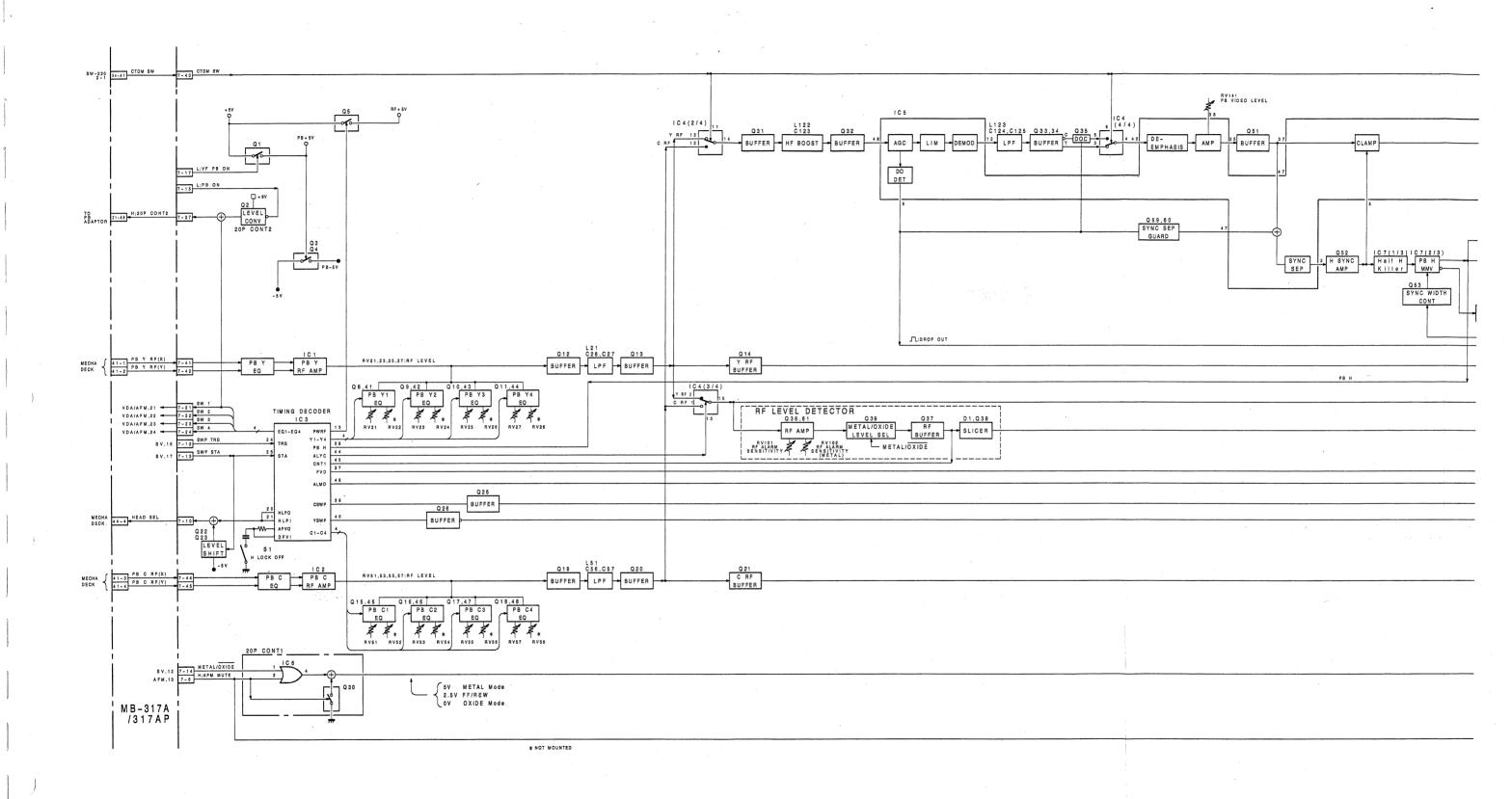


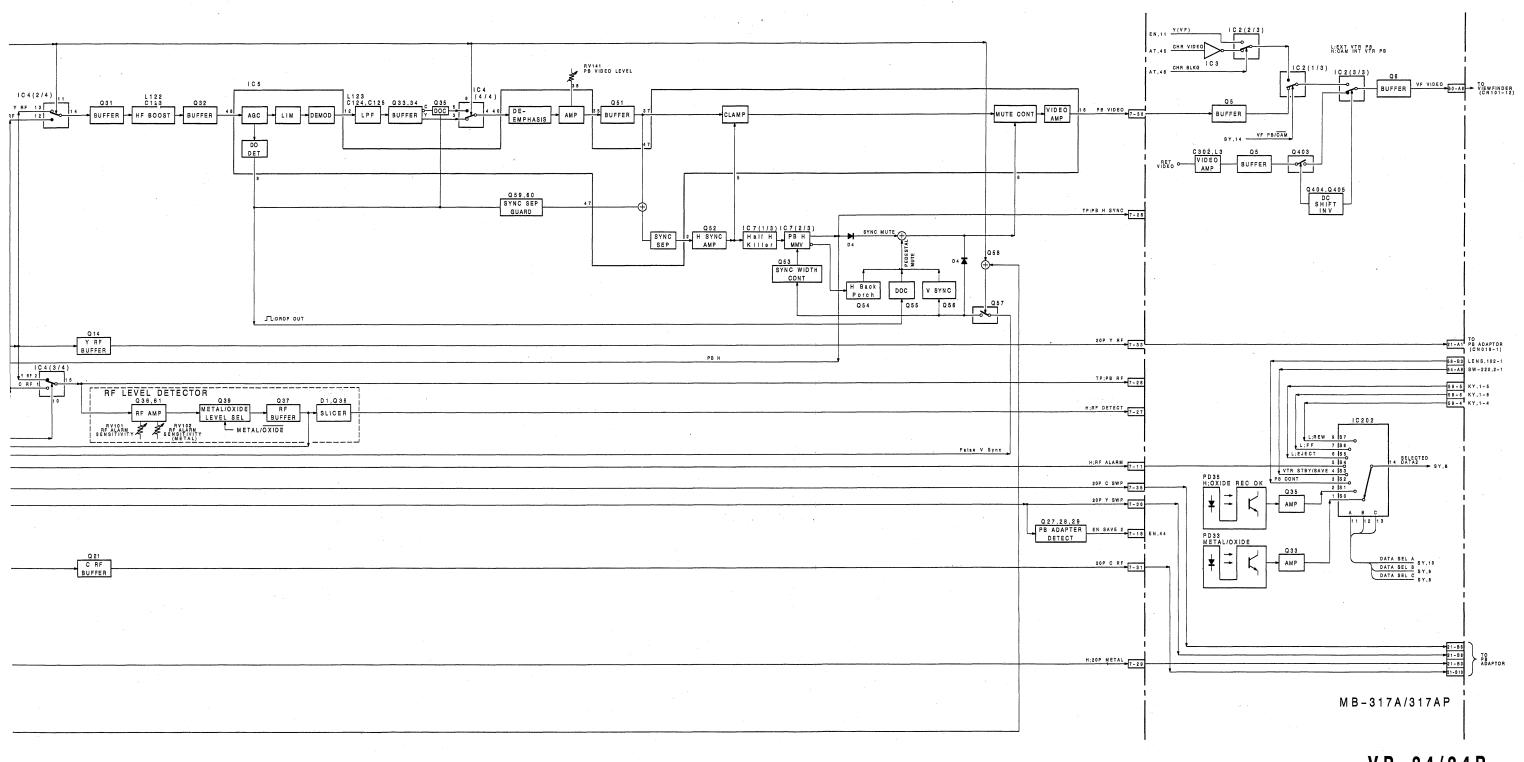


V D A - 11 / 11 P VIDEO BLOCK BVW-300A BVW-300AP



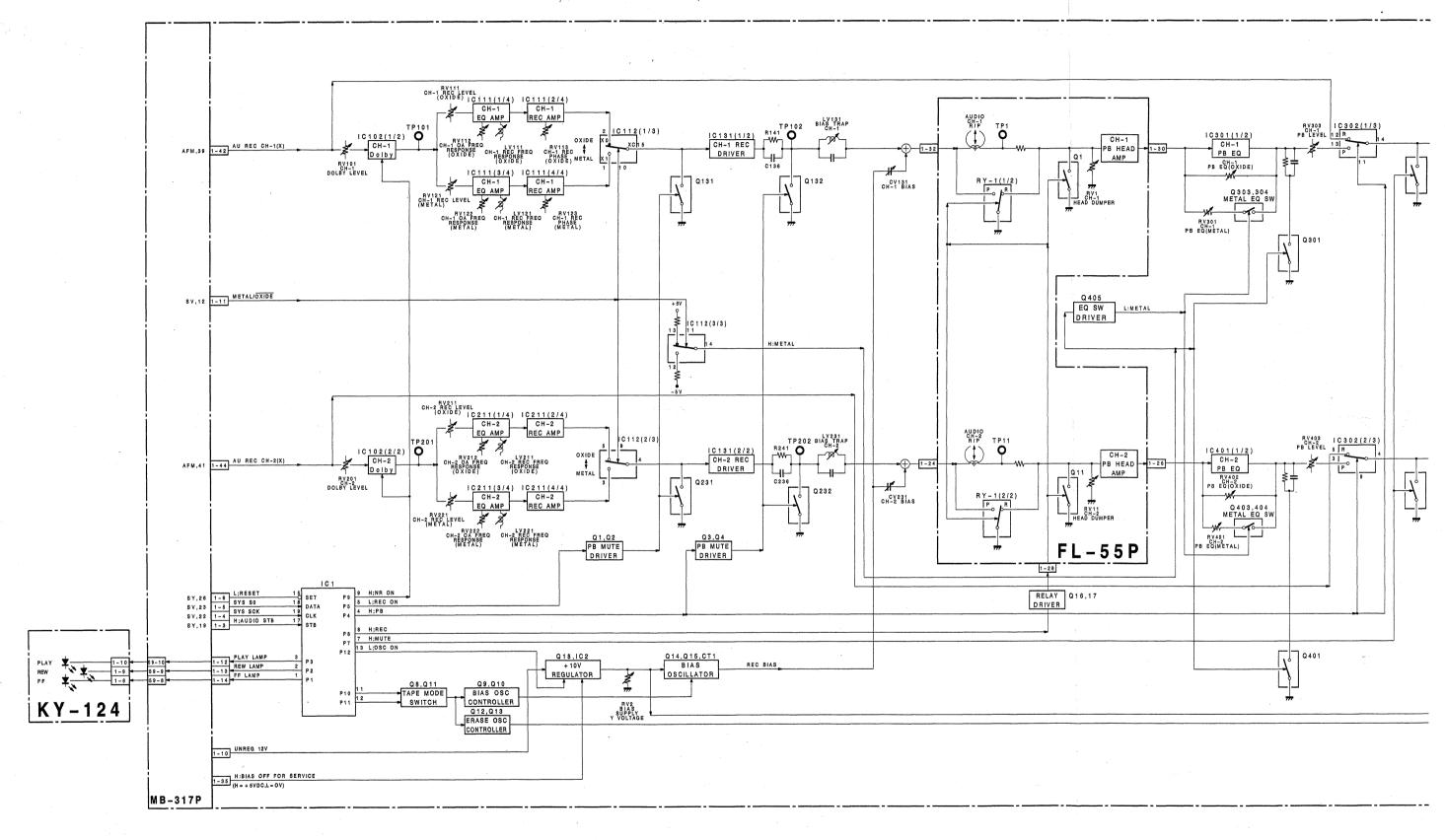


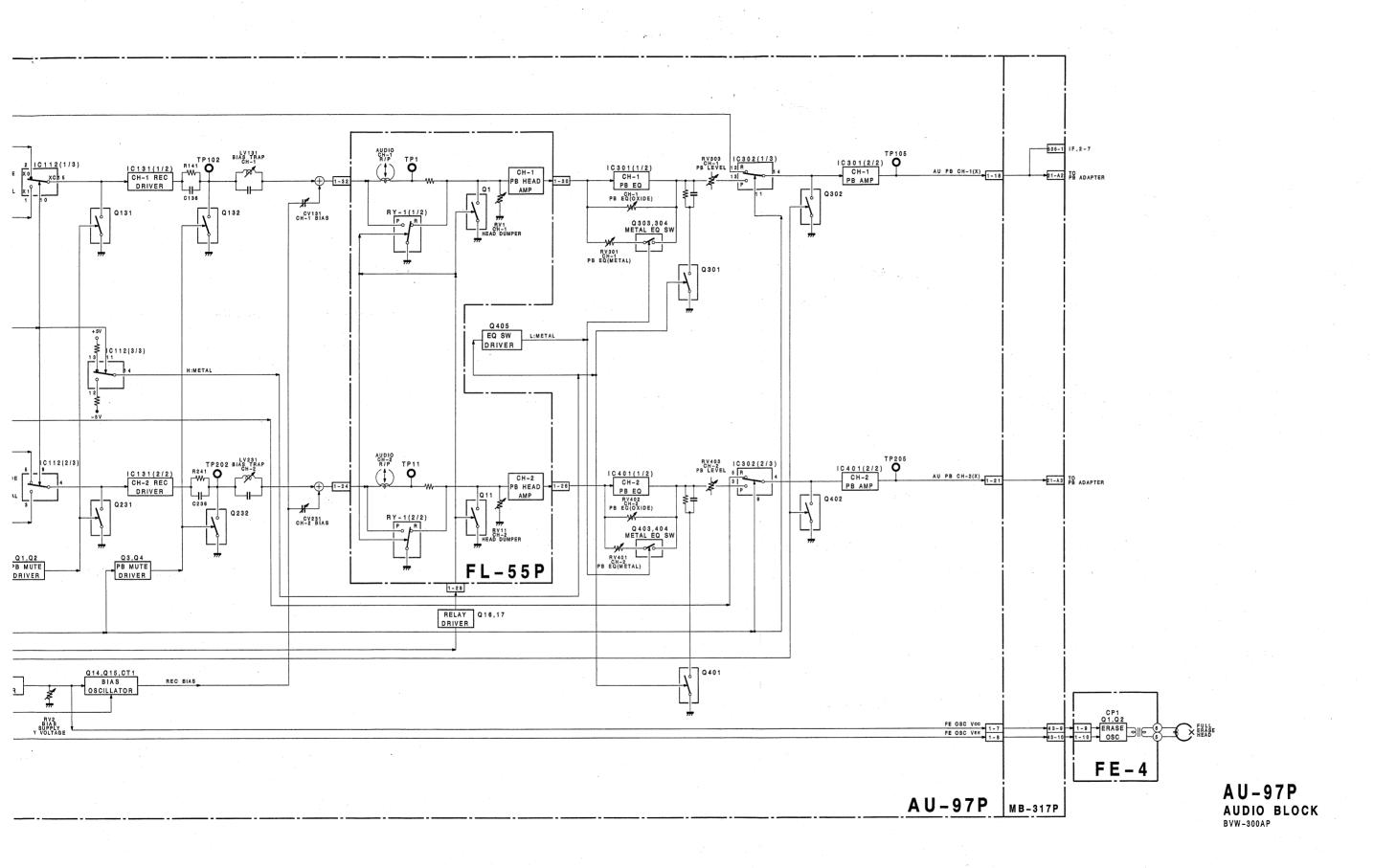




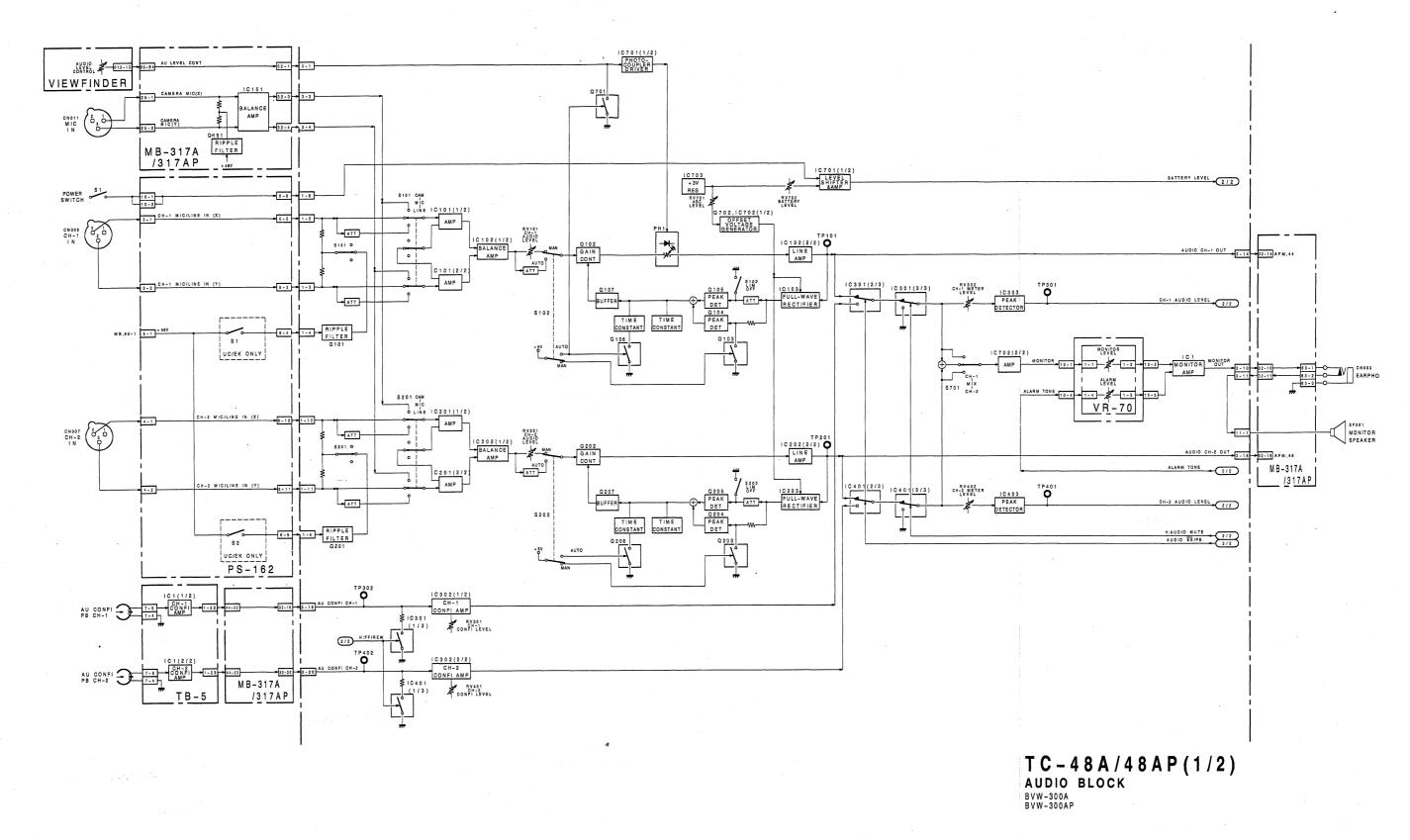
VP-24/24P VIDEO PLAY BACK BVW-300A BVW-300AP

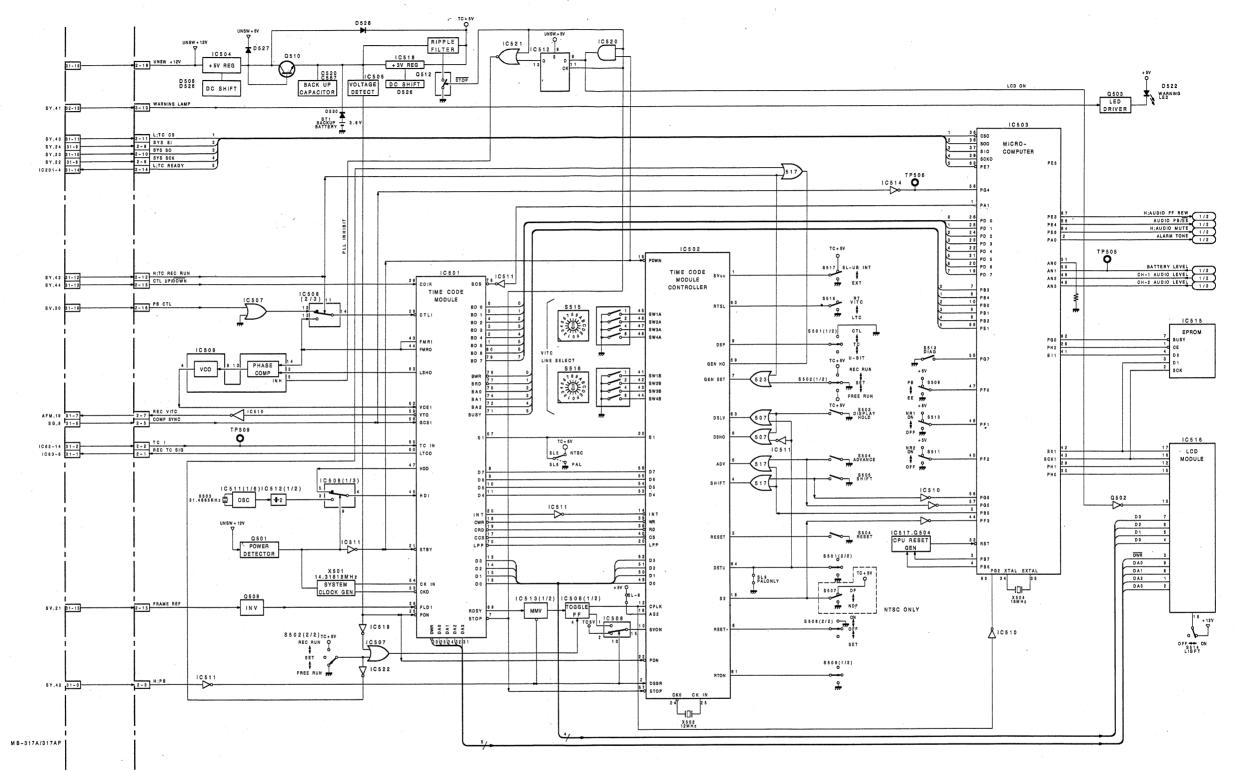
AUDIO REC/PB





TIME CODE, LEVEL CONTROL, MONITOR, SW, INDICATOR

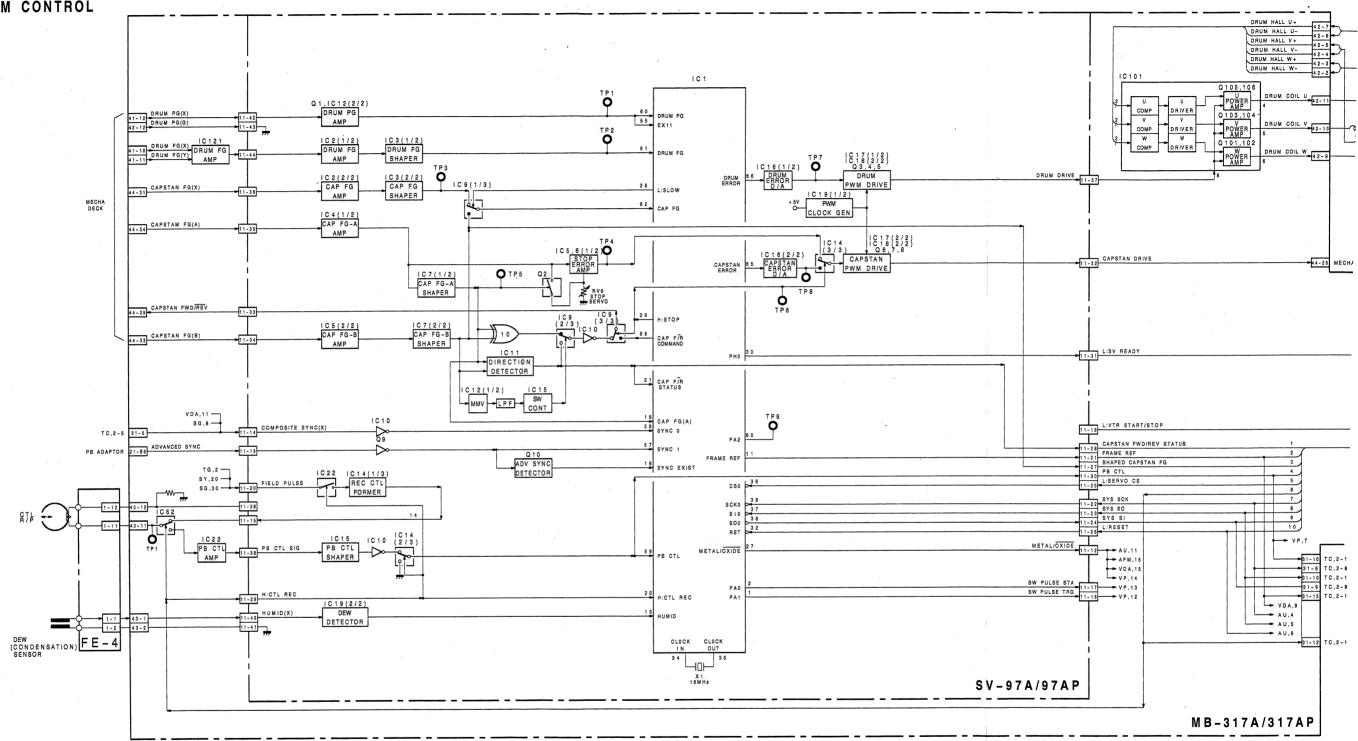


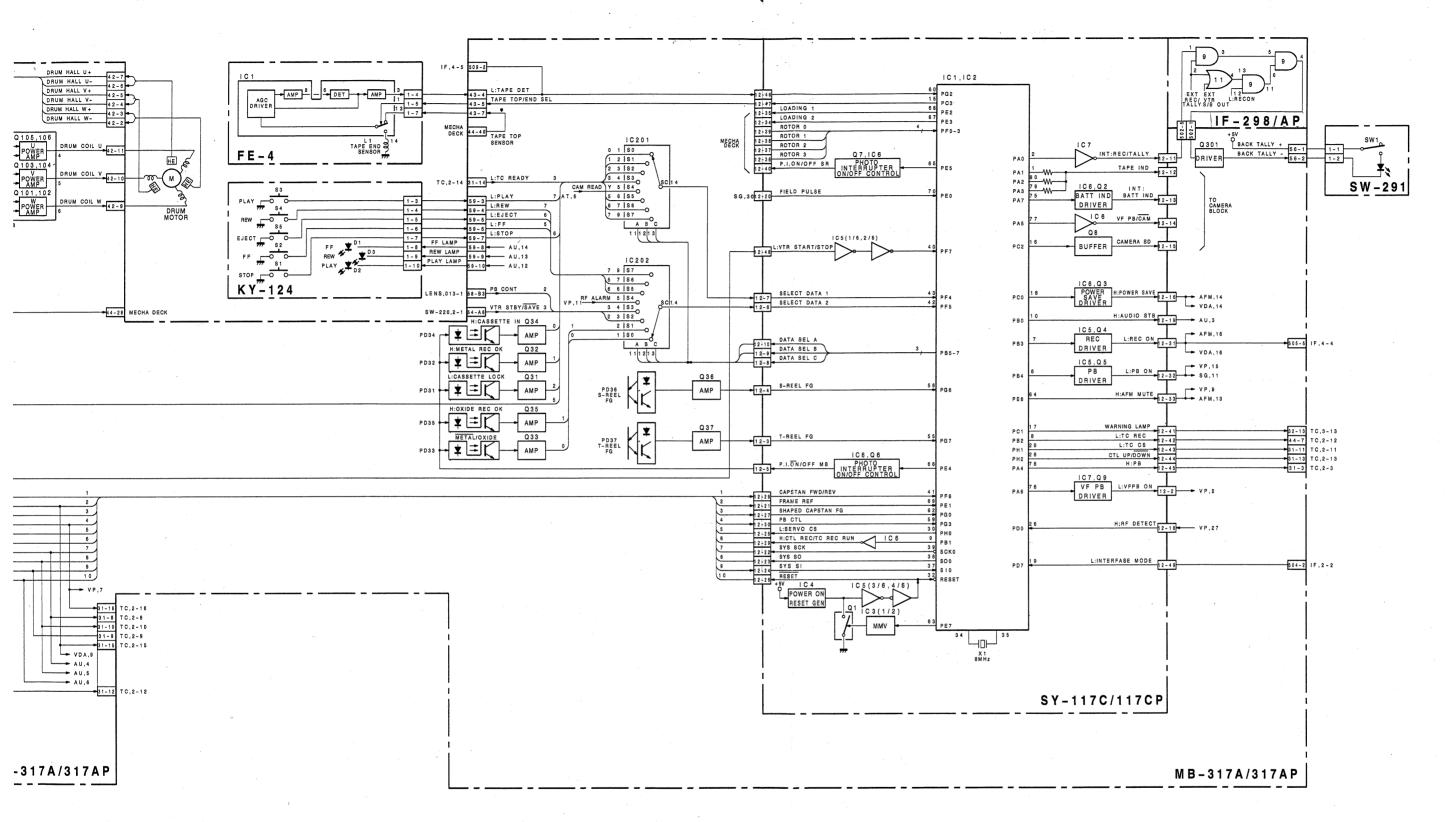


TC-48A/48AP(2/2)
TIME CODE BLOCK
BVW-300A
BVW-300AP

-14 AFM,44

MB-317A /317AP SPOO1 MONITOR SPEAKER SERVO SYSTEM SYSTEM CONTROL

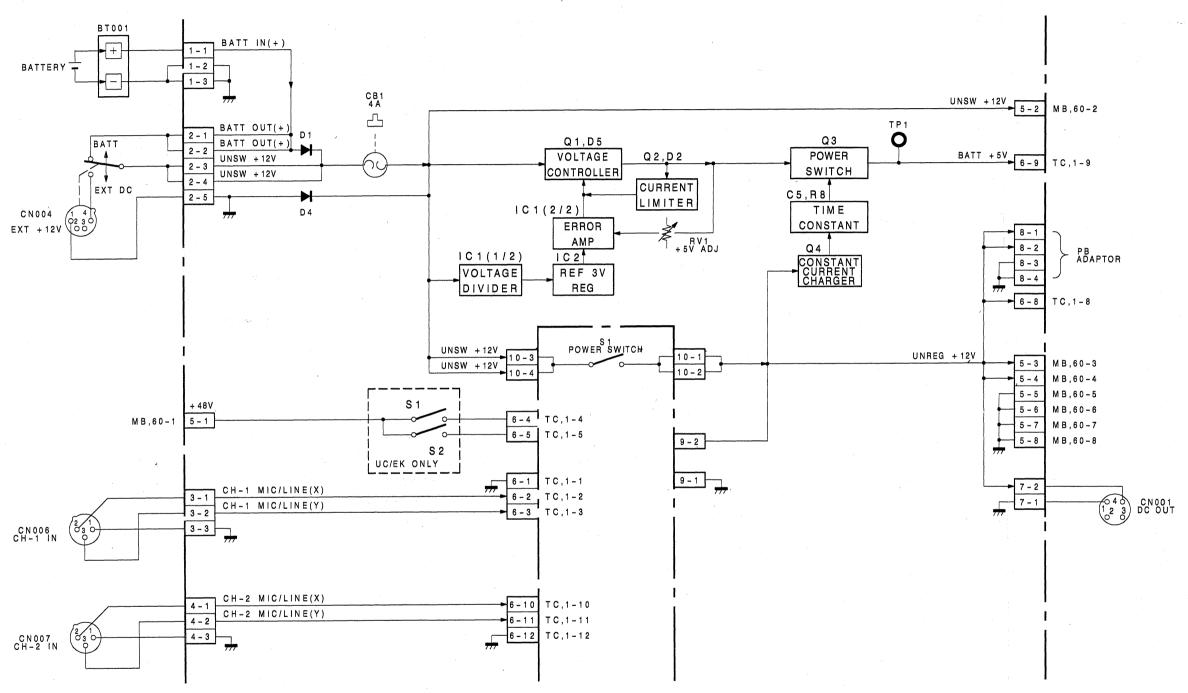




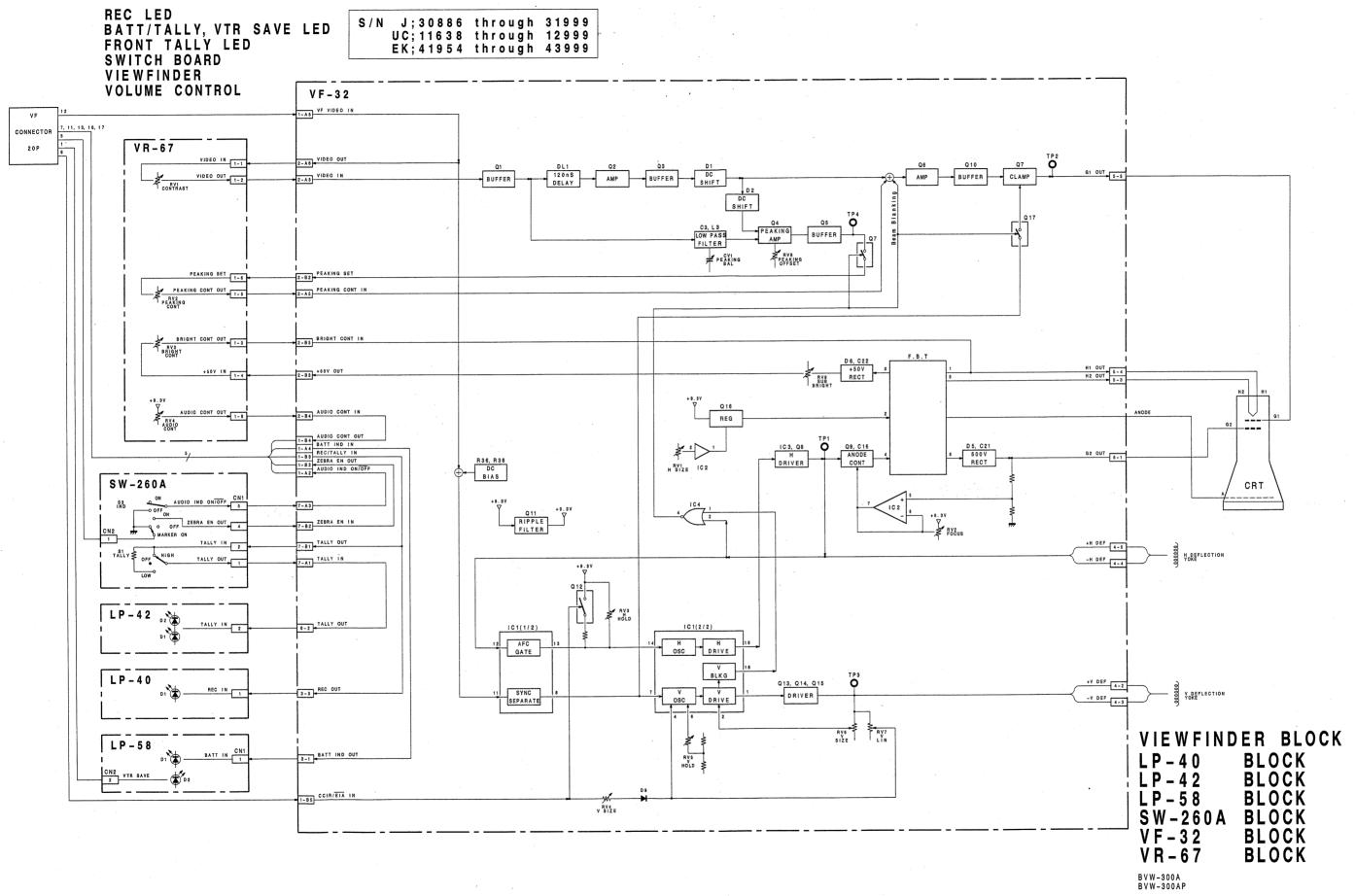
SYSCON/SERVO BLOCK

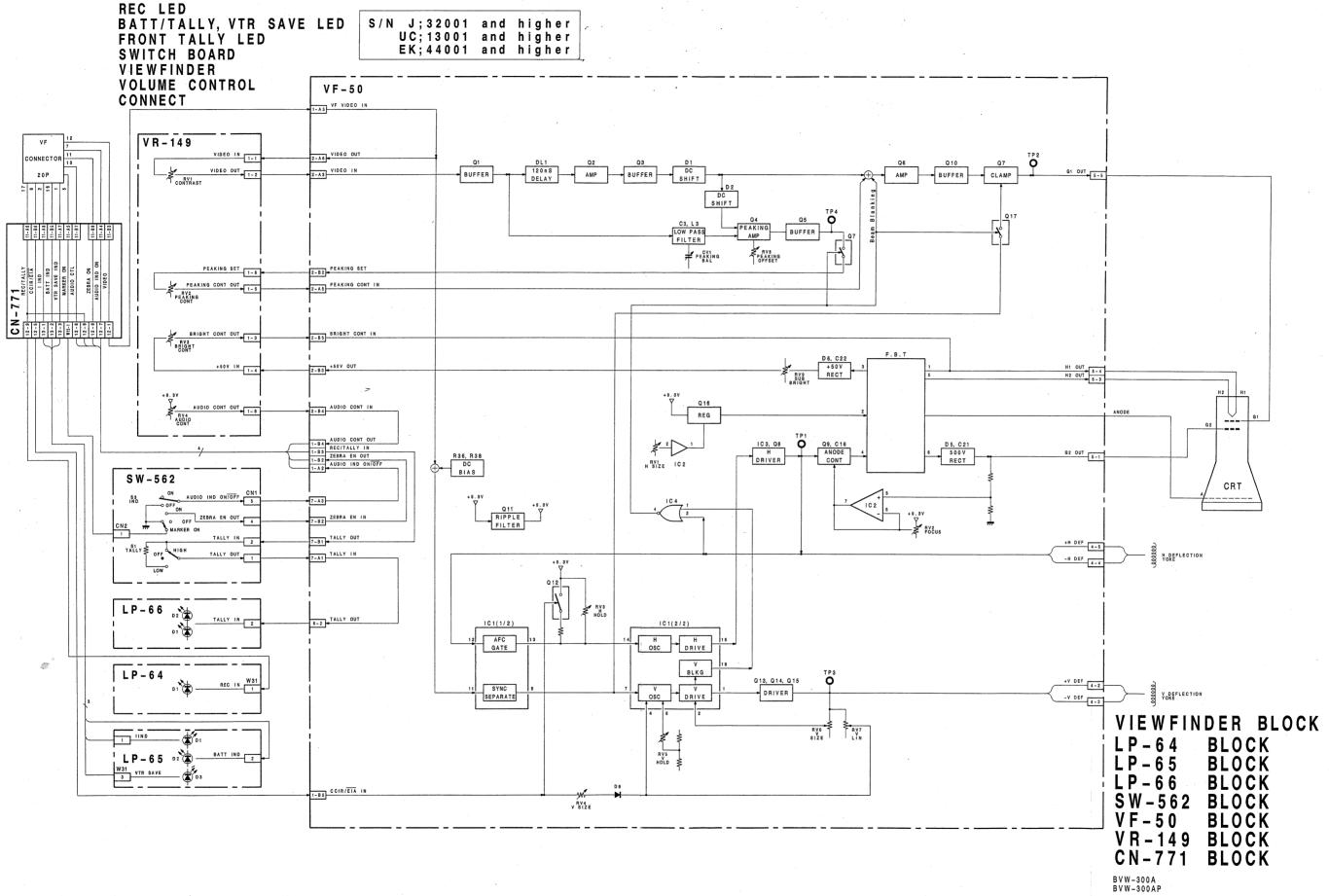
BVW-300A BVW-300AP

POWER DISTRIBUTOR



PS-162
POWER SUPPLY BLOCK
BVW-300A
BVW-300AP





SECTION 10 SEMICONDUCTOR ELECTRODES

ここに記載されているIC、トランジスタ、ダイオードは、それぞれの機能を等価的に表わしたものです。したがって互換性を表わすものではありません。(互換性のない型名が併記されている事もあります。) 部品の交換をする時は、SPARE PARTSの章を参照して下さい。

ICs, transistors and diodes whoses functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

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CXD1035BQ		MC14	081BF 10-31	TC40H241	F 10-34
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CXD8042Q	10-26		86M 10-32	TC4SU69F	10-35
CXD8154M	10-26	N.IM4	559M 10-32	TC504013	BF 10-35
CXK1011P	10-27			TC50H001	F 10-3!
CXP80116	10-27	RC149	96M 10-33	TC74HC14	F 10-33
OXIOOTIO IIII			41MD 10-33	TC74HC40	49F 10-3!
HA11423MP	10-28		43MD 10-33	TC74HC40	53AF 10-32
HD6305YOP	10-29	RC45	56MA 10-33	TC74HC45	38F 10-3
HD74AC04P-R	10-28	RC45	58M 10-33	TC7S04F	10-3!
				TC7S08F	10-3
				TL062CPS	10-3
				TL064CNS	10-3
				TL072CPS	10-3
				TL7700CP	s 10-3
				TLC27L2C	PS 10-3
				TI C271 40	NS 10-3

等価回路はICメーカーのData Bookに従いました。

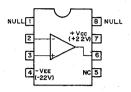
The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

<u>IC</u>	PAGE
UPC1663G	10-36
UPC311G2	10-36
UPC358G2	10-36
UPC4558G2	10-33
UPC4572G2	10-36
UPC78N??H	10-36
UPC812G2	10-36

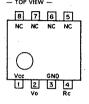
Transistor PAGE
2SA116210-37
2SA121310-37
2SA122610-37
2SA161110-37
2SA146210-37
2SA146310-37
2SA81210-37
2SB624 10-37
2SB798 10-37
2SB907 10-37
2SC1009A10-37
2SC1623 10-37
2SC271310-37
2SC2757 10-37
2SC2873 10-37
2SC3360 10-37
2SC3661 10-37
2SC4177 10-37
2SC417810-37
2SC4213 10-37
2SD596 10-37
2SD122110-37
2SD1615A10-37
2SK9410-37
2SK209 10-37
2SK508 10-37
2SK612 10-37 2SK620 10-37
25K62U 10-37
3SK16310-37
DTA114YK10-37
DTC114YU 10-37
DTC114EU 10-37
DTA144EU 10-37
DTC144EU10-37
NTM236910-37
XN6435 10-38
XN653410-38

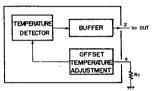
Diode	PAGE
1S1555	10-38
1S2835	
1S2836	
1S2837	
155119	
1SS123	
1SS226	
1SS304	
133304	10-30
BR0035	10-38
DA204U	10-38
DAN202U	
E10QS04	10-38
EBR3402S	
ERA81-004	
	•
GL-1HD1	10-38
GL-5LR40	10-38
GP-1S54	
GP-2S09	10-38
HSM88AS	
HSM88WK	
HZ?ALL	
HZ?A?L	
HZ?BLL	
HZ?B?L	10-38
MA152WK	10-38
RD??ESB?	10-38
RD??FB?	
RD??M	
SB01-05CP	
U05E	10-38
V09C	10-38
V11?	

AD707JN (ANALOG DEVICES)
AD707JR (ANALOG DEVICES) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW --



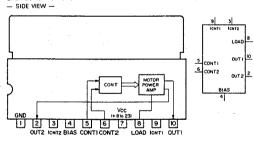
AN6701S (MATSUSHITA) FLAT PACKAGE TEMPERATURE SENSING — TOP VIEW —



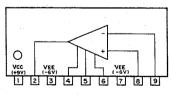


Rc: RESISTOR FOR CALIBRATION

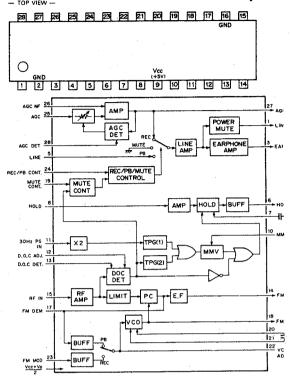
BA6229 (ROHM) BI-DIRECTIONAL MOTOR DRIVER



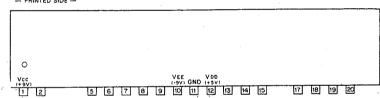
BX1356 (SONY)
VIDEO OUTPUT AMPLIFIER
— PRINTED SIDE —



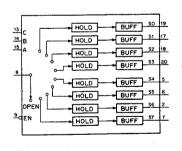
AN6391 NS (MATSUSHITA) FLAT PACKAGE AUDIO FM REC/PB AMP — TOP VIEW —



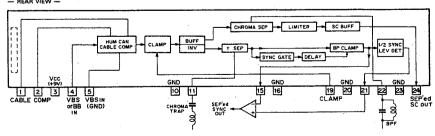
BX1179 (SONY) 8-CHANNEL SELECTABLE SAMPLING HOLDER --- PRINTED SIDE ---



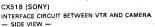
EN	С	В	Α	"ON" CHANNEL
o	0	0	0	SO
0	0	0	1	S1
0	0	1	0	52
0	0	1	1	\$3
0	1	0	0	S4
0	1	0	1	S5
0	1	. 1	0	56
0	1	1	1	S7
1	X	X	X	OPEN
				0:LOW LEVE
				X:DON'T CA

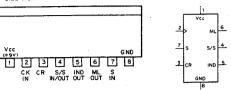


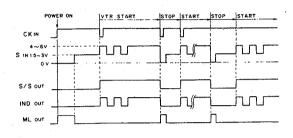
BX1040 (SONY) SYNC SEPARATOR — REAR VIEW —

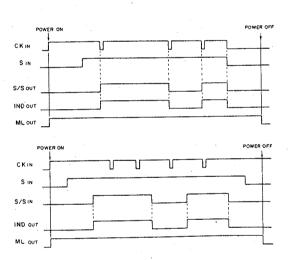


BVW-300A (J, UC) BVW-300AP (EK)

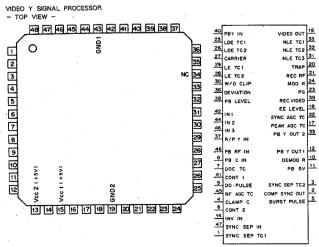




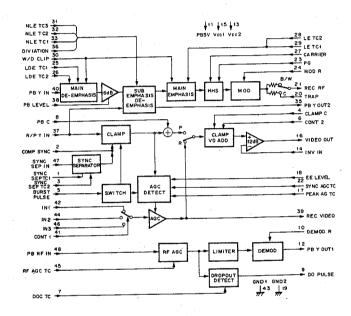




CX20030 (SONY) FLAT PACKAGE CXA1230AR (SONY) FLAT PACKAGE VIDEO Y SIGNAL PROCESSOR



								$(V_{DD} = + 5V)$
PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	T	SYNC SEP TC1	17	- 1	PEAK AGC TC	33		NLE TC1
2	0	COMP SYNC	18	1	EE LEVEL	34		NC .
3	1	SYNC SEP TC2	19	-	GND2	35	0	PB Y OUT2
4	1	CLAMP C	20	1	TRAP	36		DEVIATION
5	1	BURST PULSE	21	0	REC RF	37	_	R/P Y IN
6	1	CONT2	22	1	SYNC AGC TC	38	1	PB LEVEL
7	1	DOCTC	23	, i	PG	39	0	REC VIDEO
8	ī	PB C	24	1	MOD R	40		PB Y IN
9	0	DO PULSE	25	1	LDE TC1	41	1	CONT1
10	T	DEMOD R	26	1	LDE TC2	42	1	IN1
11	I	PB 5V	27	1	CARRIER	43	-	GND1
12	0	PB Y OUT1	28	I	LE TC2	44	_	IN2
13	-	Vcc2	29	1	LE TC1	45	1	RF AGC TC
14	1	INV IN	30	i i	W/D CLIP	46	l i	IN3
15	-	Vcc1	31	1	NLE TC3	47	1	SYNC SEP IN
16	0	VIDEO OUT	32	1	NLE TC2	48	l i	PB RF IN



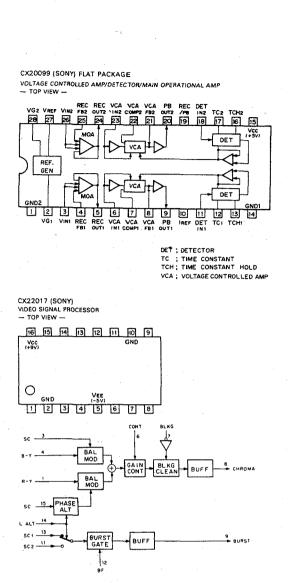
INPUT
BURST PULSE : BURST PULSE INPUT
CARRIER : FM MODULATOR CARRIER CONTROL INPUT
CLAMP C : EXTERNAL CAPACITOR FOR CLAMPING INPUT
CONT 1 : INTERNAL SWITCH CONTROL INPUT
CONT 2 : MUTING AND VD-ADD CONTROL INPUT
DEVIATION : EXTERNAL RESISTOR FOR FM DEMODULATOR INPUT
DEVIATION : DEVIATION CONTROL INPUT
DE CYTERNAL CAPACITOR FOR DROPOUT DETECTION INPUT
EXTERNAL CAPACITOR FOR DROPOUT DETECTION INPUT
IN 1 - IN 3 : RECORDING VIDEO SIGNAL INPUTS
INV IN : INVERTING INPUT FOR VIDEO CIRCUIT
LOE TC1,TC2 : EXTERNAL RESISTOR FOR LINEAR DE-EMPHASIS INPUTS
LE TC1,TC2 : EXTERNAL CAPACITOR FOR NON-LINEAR EMPHASIS INPUTS
INV IN : INVERTING INPUT FOR VIDEO CIRCUIT
LOE TC1,TC2 : EXTERNAL CAPACITOR FOR NON-LINEAR EMPHASIS INPUTS
EXTERNAL CAPACITOR FOR NON-LINEAR EMPHASIS INPUTS
EXTERNAL CAPACITOR FOR NON-LINEAR EMPHASIS INPUTS
B 5V : POWER FOR PLAYBACK SYSTEM INPUT
B 5V : PB CHROMA INPUT AND M/C CONTROL INPUT
B 6 C : PB CHROMA INPUT AND M/C CONTROL INPUT
B 7 IN : PB 7 SIGNAL CONTROL INPUT
B 7 IN : PB 8 T SIGNAL FOR DE-EMPHASIS INPUT
B 7 IN : PB 8 T SIGNAL FOR DE-EMPHASIS INPUT
S 10 (30 Hz) GRAL INPUT
B 7 IN : SYNC SEPARATION SIGNAL INPUT

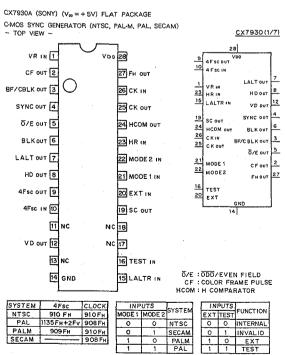
TRAP : TRAP INPUT

TAP INPUT

COMP SYNC : CAMPING INPUT
COMP SYNC : CAMPING INPUT
COMP SYNC : COMPOSITE SYNC OUTPUT
COMP SYNC :

BVW-300A (J, UC) BVW-300AP (EK)

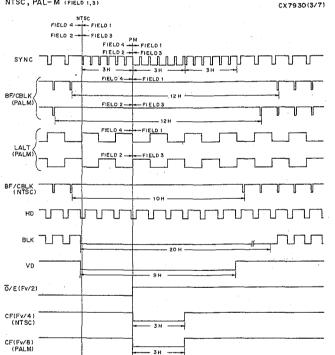




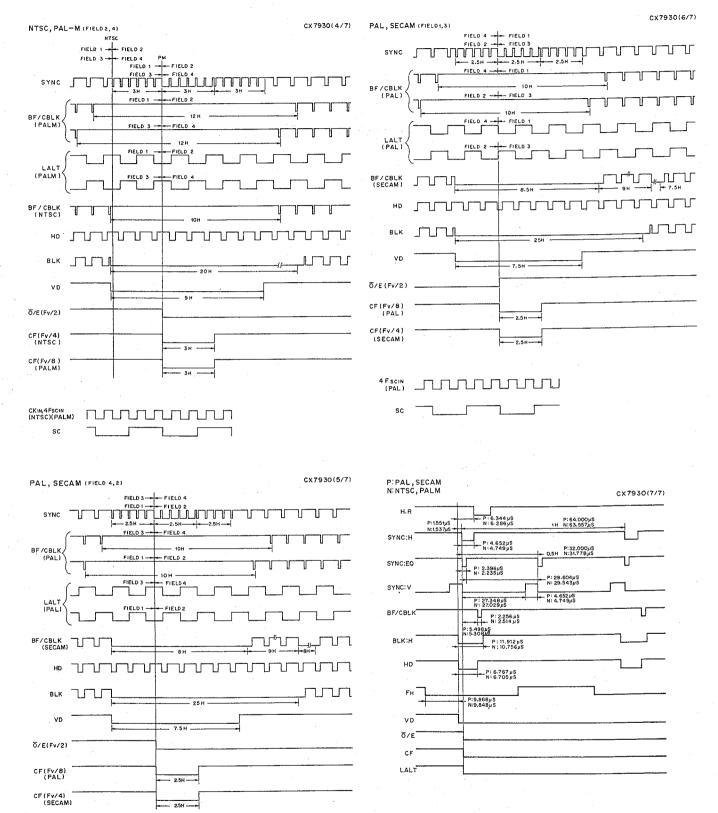
0 ; LOW LEVEL (GND) 1 ; HIGH LEVEL (VOD)

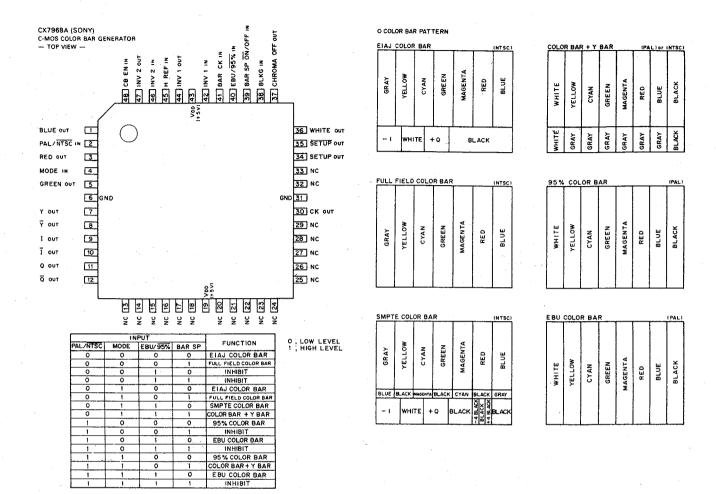
BVW-300A (J, UC) BVW-300AP (EK)

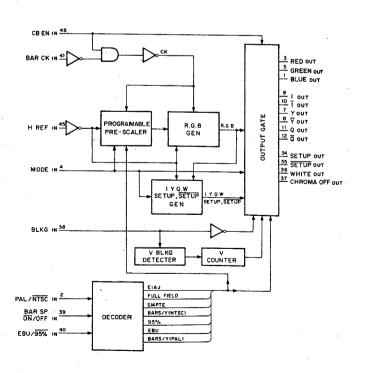
CX7930(2/ CKIN CKOUT HRIN нсом очт SCOUT 25 23 FOR PM 24 FOR P 4FSC 10 -28 VDD (+5V) H RESET + 9 +101 SC RESET 4Fsc -SC RESET ÷81 PHASE MPARATO P, S: ÷454 N,PM: ÷455 в но очт 12 VDOUT 2FH FIELD 1 RESET GEN P,S: ÷625 4 SYNC OUT P:÷625 PM:÷525 6 BLK OUT F٧ BF/CBLK o PM: FV/2 V RESET GEN 5 0/E OUT PAL SECAM PAL-M MODE 1 21 2 CF OUT 27 FH OUT MODE 2 22 EXT 20 TEST 16 NTSC , PAL- M (FIELD 1,3) CX7930(3/7) NTSC FIELD 4 FIELD 1 FIELD 2 FIELD 3 SYNC



TEST 'O": OPEN (INTERNALLY) (PULLED DOWN)







BVW-300A (J, UC) BVW-300AP (EK)

IO. SEMICONDOCION ELECTRODES HITTERIN

1. SYSTEM DES	IGNATION
INPUT	SYSTEM
PAL/NTSC IN	PAL, SECAM
0	NTSC, PALM

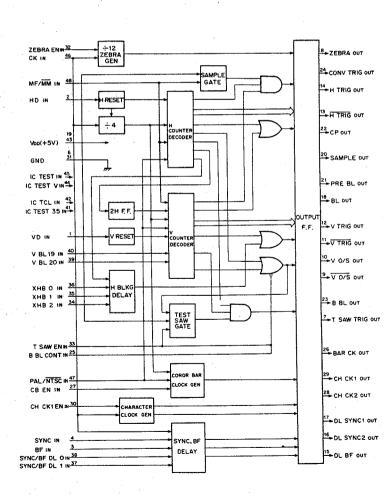
2. TYPE OF TUBE			
INPUT FUNCTION			
1011011011			
MAG-STA TUBE			
MAG -MAG TUBE			

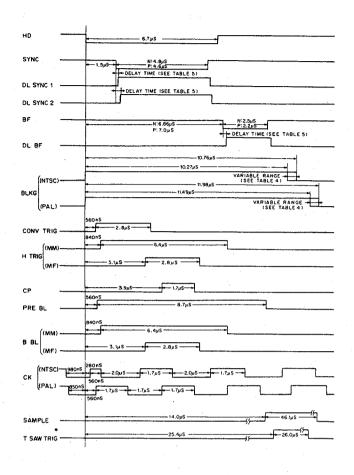
3.V BLKG WIDTH (NTSC ONLY				
INP	UT			
V BL 19	V BL, 20	V BLKG WIDTH		
1	×	19H		
0	1	20H		
0	0	21 H		

INPUT			BLKG W	IDTH (µS)
XHB2	XHB1	XHBO	NTSC	PAL
1	1	1	10.27	11.49
1	1	0	10.34	11.56
1	0	1	10.41	11.63
1	0	0	10.48	11,70
0	1	1	10.55	11.77
0	1	0	10.62	11.84
0	0	1	10.69	11.91
0	0	0	10.76	11.98

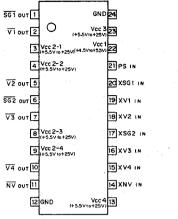
INF	TU'	DELA	Y TIME (n	S)
SYNC/BF DL	SYNC/BF DL2	DL SYNC 1	DL SYNC 2	DL BF
1	1	140	210	140
1	0	210	280	210
0	1	630	700	630
0	0	700	770	700

1; HIGH LEVEL 0; LOW LEVEL X; DON'T CARE

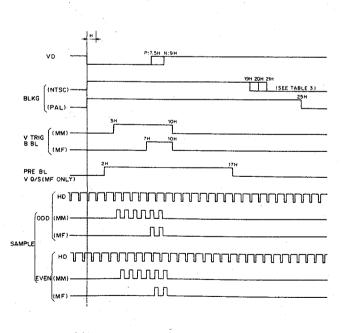


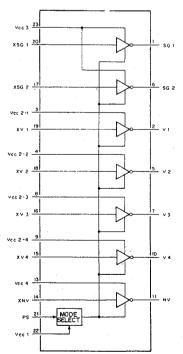






XVI-XV4; VERTICAL REGISTER TRANSMISSION CLOCK INPUT VI-VG; VERTICAL REGISTER TRANSMISSION CLOCK OUTPUT XSG1, XSG2; SENSER GATE PULSE INPUT SG1, SG2; SENSER GATE PULSE OUTPUT XNV; DRIVER INPUT NV; DRIVER OUTPUT PS: POWER SAVE INPUT VCC1; BIAS VOLTAGE VCC2-1; VI OUTPUT PULSE VOLTAGE VCC2-2; VZ OUTPUT PULSE VOLTAGE VCC2-3; VZ OUTPUT PULSE VOLTAGE VCC2-4; VZ OUTPUT PULSE VOLTAGE VCC2-4; VZ OUTPUT PULSE VOLTAGE VCC3; SG1, SG2 OUTPUT PULSE VOLTAGE VCC4; NV OUTPUT PULSE VOLTAGE VCC4; NV OUTPUT PULSE VOLTAGE





+4 to +7V +4 to +12V

Vs<Vcc2

CXA1127M (SONY) FLAT PACKAGE

CAPSTAN MOTOR DRIVER - TOP VIEW -23 24 25 29 25 V IN1 26 V IN2 27 W IN1 28 W IN2 18 ANGLE 19 BR 20 FRC 13 STBY 28 W IN 2 27 W IN1 26 V IN2 25 V IN1

24 U IN2

1או ט 23

22 VH-0UT

21 VH+0UT

20 FRC IN

19 BR IN

17 16

OPEN

+6 to +12V

short to Vcc2

Vs<Vcc2

18 ANGLE IN

OTHERS Rf Rs

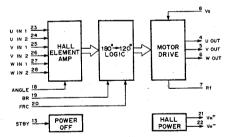
INPUT BR FRC STBY U IN1. 2 V IN1. 2 : MOTOR BRAKE (H:STOP, L:PLAY)
: FWD/REV CONTROL (H:FWD, L:REV)
: STAND-BY (GND:POWER OFF)
: U PHASE INPUTS
: V PHASE INPUTS
: MOTOR INPUT VOLTAGE (Vs < Vc2)
: W PHASE INPUTS

Vs W IN1, 2

OUTPUT U OUT V OUT VH*, VHT W OUT : U PHASE OUTPUT : V PHASE OUTPUT : HALL BIAS CURRENT : W PHASE OUTPUT

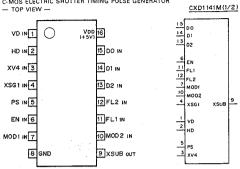
GND FOR OUTPUT TRANSISTOR GND FOR OUTPUT DRIVER

	1147-01		FRC	FUNCTION 1				
υ	٧	W	FAC	FONCTION				
н	н		0	W→V PHASE				
н	н	L	1	V → W PHASE				
н		Ī.	0	W-→U PHASE				
п	-	-	1	U → W PHASE				
L		н	G	V → W PHASE				
L	-		1	W→V PHASE				
L	н		0	U→V PHASE				
Ľ	"	"	"	-	"	-	1	V → U PHASE
н	L	н	0	V → U PHASE				
п	1		1	U → V PHASE				
	н	н	0	U → W PHASE				
	-	, n	1	W → U PHASE				



CXD1141M

CXD1141M (SONY)
C-MOS ELECTRIC SHUTTER TIMING PULSE GENERATOR - TOP VIEW -



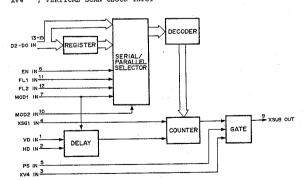
MODE SELECTION								
£Ν	EN MODIMODE F		FL1	FL2	D2	D1	DO	SHUTTER SPEED
1	1	1	1		0	0	0	1/60
1	1	1	1		0	0	1.	1/125
ī	1	1	1		0	1	0	1/250
1	1	1	.1		0	1	1	1/500
1	1	1	1		1	0	.0	1/1000
1	1	1	1		1	0	1	1/2000
1	1	1	1		1	1	0	1/4000
_1	1	1	1		1	1	1	1/10000
***	0	_	1	ļ	0	0	0	1/60
1	0	1	1		٥	0	1	1/125
1	0	1	1		0	1	0	1/250
1	0	1	1_1_		0	1	1	1/500
1	0	1	1		1	0	0	1/1000
1	0	1	1		1	0	1	1/2000
1	0	1	1		1	1	0	1/4000
1	0	1	1		1	1	1	1/10000
_1	1		0	1				1/100
1	1		Ó	0				1/120
1	0		0	1				1/100
1	0		0	0				1/120
0								NORMAL

O:LOW LEVEL

CXD1141M(2/2)

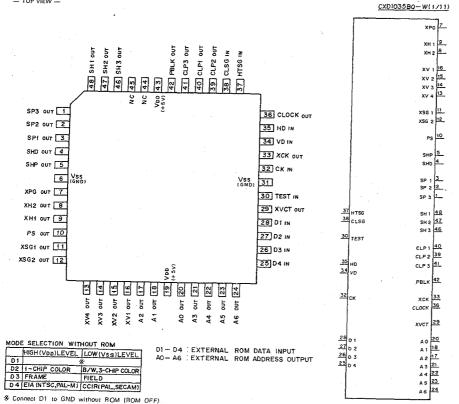
ESTABLISH INPUTS OF SHUTTER SPEED
ENABLE INPUT LOW: NORMAL MODE, HIGH: ELECTRONIC SHUTTER MODE
MODE SELECT INPUT. LOW: FLICKERLESS, HIGH: NORMAL
MODE SELECT INPUT. LOW: FOLZ, HIGH: 50HZ
HORIZONTAL DRIVE PULSE INPUT
MODE SELECT INPUT. LOW: PAL, HIGH: NTSC
MODE SELECT INPUT. LOW: SERIAL INPUT, HIGH: PARALLEL INPUT
POWER SAVE PULSE INPUT
VERTICAL DRIVE PULSE INPUT
READ OUT PULSE INPUT OF SENSOR ELECTRON
ELECTRON SWEEP OUT PULSE INPUT
VERTICAL SCAN CLOCK INPUT EN FL1 FL2 HD MOD1 MOD2 PS VD

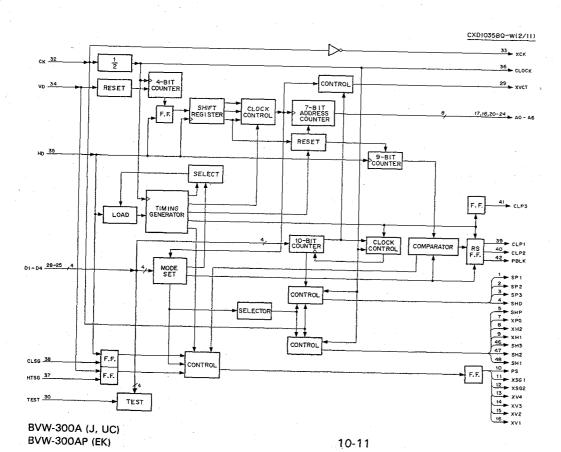
XSG1 XSUB XV4





CXD1035BO-W (SONY) FLAT PACKAGE CXD1035BO-Z (SONY) FLAT PACKAGE C-MOS TIMING PULSE GENERATOR FOR CCD CAMERA — TOP VIEW —



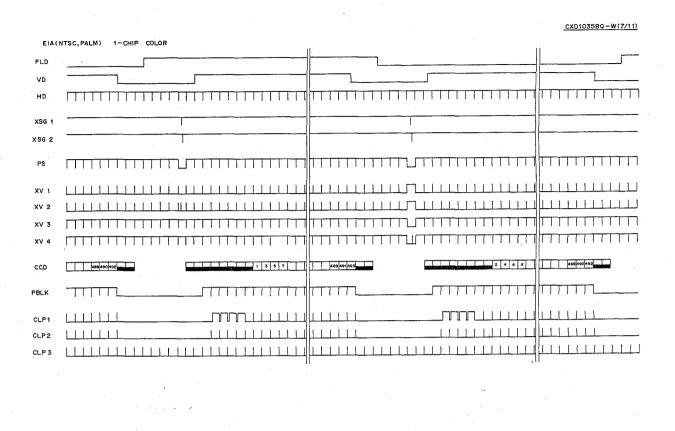


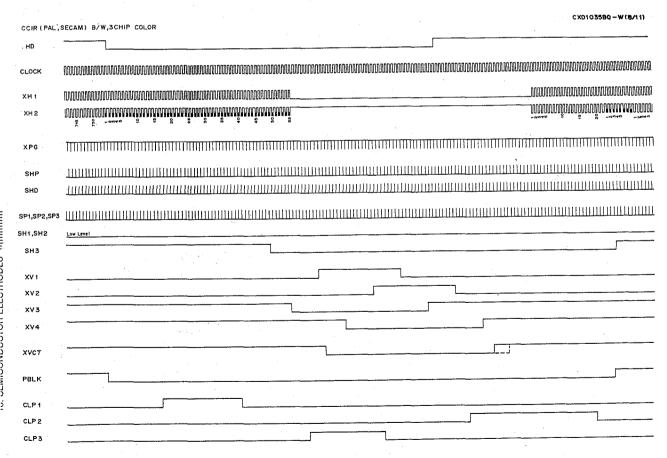
CLP1

CXD1035BQ-W(3/11) B/W, 3-CHIP COLOR 1-CHIP COLOR SHD SP2 SH₂ CXD1035BQ-W(4/11) EIA (NTSC, PALM) B/W,3-CHIP COLOR CLOCK хнз XH 2 XPG SHP SHD SH1,SH2 SH3 XV 1 XV3 PBLK

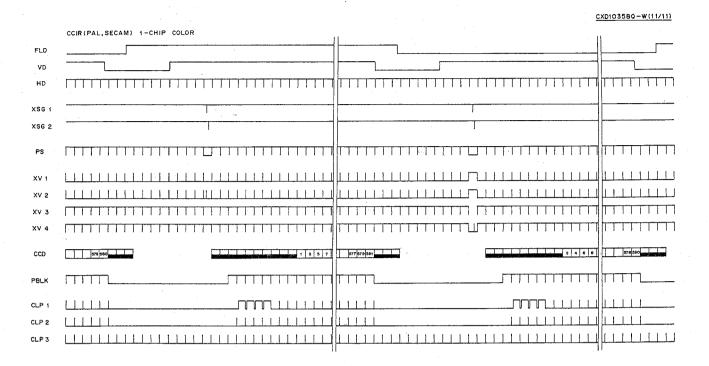
10-13

BVW-300AP (EK)

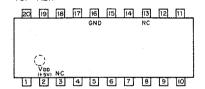




CCIR(PAL,SECAM) B/W.3-CHIP COLOR

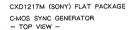


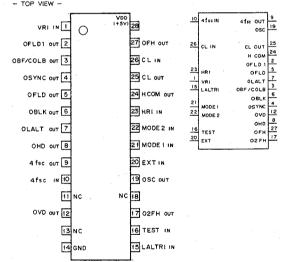
CXD1216M (SONY) FLAT PACKAGE C-MOS GENLOCK DRIVER - TOP VIEW -



	UTS	EXT LOCK MODE							
MODE 1	MODE 2		EXT LOCK MODE						
0	0 0		PAL:VBS						
1	0	М 2	PAL-M:VBS						
0	1 :	м 3	PAL; VS/SC/LALT						
0			SECAM:VS/SC/LALT						
		м 4	NTSC:VBS						
1	1		NTSC: VS/SC						
			PAL-M:VS/SC/LALT						

O; LOW LEVEL 1; HIGH LEVEL

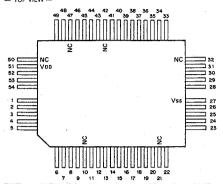




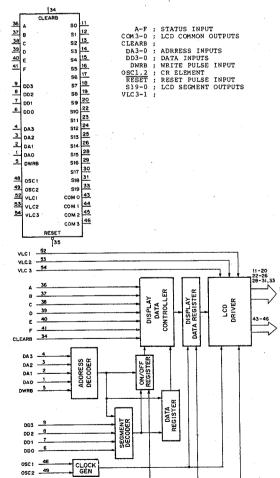
SYSTEM	4fsc	CLOCK
NTSC	. 910fн	910fн
PAL	1135f++2fv	908fx
PALM	909fн	910fx
SECAM	_	908fн

INF	TU	SYSTEM
MODE1	MODE2	3131EM
0	0	NTSC
0	1	SECAM
1	0	PALM
1	1	PAL
2 1 014	1.51/51	





PINNO.	1/0	SYMBOL	PINNO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	1	DAO	19	0	SB	37_	1	В
2	_	DA1	20	0	S9	38	3	С
3	-	DA2	21	t	NC	39	ı	۵
4	_	DA3	22	0	\$10	40	- 1	E
5	_	DWRB	23	0	S11	41	1	F
6	_	DDO	24	0	S12	42	-	NC .
7	1	DD1	25	0	S13	43	0	COMO
8	_	DD2	26	0	S14	44	0	COM1
9	_	DD3	27	i	Vss	45	0	COM2
10	-	NC	28	0	S15	46	0	COM3
11	0	SO	29	0	S16	47	-	NC
12	0	S1	30	0	S17	48	1	0\$C1
13	0	S2	31	0	S18	49	0	osc2
14	0	S3	32	-	NC	50	=	NC
15	0	54	33	0	S19	51	-	VD0
16	0	S5	34	1	CLEARB	52	1	VLC1
17	0	S6	35	1	RESET	53	I	VLC2
18	0	\$7	36		Α	54		VLC3

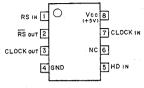


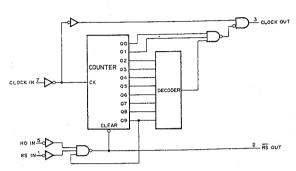
BVW-300A (J, UC) **BVW-300AP (EK)**

RESET 35

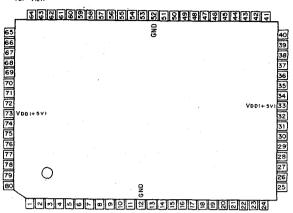
CLOCK GEN



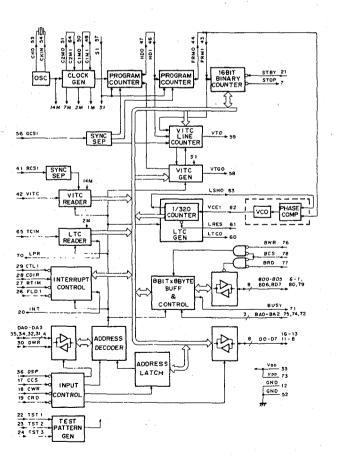




CXD1132Q (SONY) FLAT PACKAGE C-MOS TIME CODE GENERATOR/READER - TOP VIEW -



PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	1/0	DB5	17	1	CCS	33	~	VDD	49	1	CIMI	65	I	TCIN
2 -	1/0	DB4	18	1	CWR	34	1/0	DAI	50	0	CIMO	66	_0	DCLK
3	1/0	DB3	19	1	CRD	35	1/0	DA0	51	0	C2MO	67	0	DATA
.4	1/0	DB2	20	0	INT	36	1	DSP	52		GND	68	0	RFLD
_5	1/0	DBI	21	L L	STBY	37	0	DTSE	53	0	CKO	69	0	RDSY
6	1/0	DB0	22	1	TST-1	38	0	VRCK	54	I	CKIN	70	0	LRP
7	_ <u>0</u> _	STOP	_23		TST2	39	_1_	SLLM	55	1	SLCK	71	0	BUSY
8	1/0	U7	24	1.	TST3	40	0	RVDO	56	1	GCSI -	72	1	BA2
9	1/0	D6	25	I	PON	41	1	RCSI	57	1	SI	73	T	VDD
10	1/0	D5	26		FLDI	42	I	VITC	58	0	VTGO	74	1	BAI
11	1/0	D4	27	1	RTIM	43	I	FRMI	59	0	VTO	75	1	BAO
12		GND	28	ı	CDIR	44	0	FRMO	60	0	LTCO	76	1	BWR
13	1/0	D3	29	Ī	CTLI	45	0	GLSY	61	ī	LRES	77	1	BRD
14	1/0	D2	30	1/0	DWR	46	1	IIDI	62	I	VCEI	78	T	BCS
15	1/0	Di	31	1/0	DA3	47	0	HDO	63	0	LSHO	79	1/0	BD7
16	1/0	100	32	1.0	DA2	48	0	VDO	64	1	C2M1	80	1/0	BD6



SIGNAL DESCRIPTION

BAO-BA2

B ADDRESS INPUTS

BCS B CHIP ENABLE INPUT ("L":ENABLE)

BDO-BD7

B DATA I/O

BRD B READ INPUT ("L":READ)

BUSY B BUSY OUTPUT

BWR B WRITE INPUT ("L":WRITE)

CIMO LOCK I OUTPUT (CKIN X 1/16)

CZMO LOCK I OUTPUT (CKIN X 1/16)

CZMO LOCK 2 OUTPUT (CKIN X 1/8)

CCS C CHIP ENABLE INPUT ("L":ENABLE) (when DSP is low)

ADDRESS LAITCH ENABLE INPUT ("L":ENABLE) (when DSP is high)

CDIR CTL DIRECTION INPUT

CKIN SYSTEM CLOCK INPUT

CKIN SYSTEM VIDEO SIGNAL FORMAT CKIN
SMPTE 29.97HZ 525LINE 14.318MHZ
EBU 25HZ 625LINE 14.500MHZ
CLOCK OUTPUT
C READ INPUT ("L":READ)
CTL SIGNAL INPUT
C WRITE INPUT ("L":WRITE)
DATA 1/0 (when DSP is low)/
ADDRESS INPUTS
A3 CKO CRD CTLI CWR DO-D7 CWR C WRITE INPUT ("L":WRITE)
D0-D7 DATA 1/O (when DSP is low)/
ADDRESS INPUTS
DAO-DA3

E ADDRESS INPUTS (when DSP is high)
D ADDRESS INPUTS (when DSP is low)
DATA DEMORDED SEVEN (when DSP is low)
DATA DEMODULATED SEVEN DATA OUTPUT
DSP DISPLAY BUS SELECT INPUT
DSP DISPLAY BUS SELECT INPUT
DSP CONTROL SELECT INPUT
DSP CONTROL SELECT INPUT
DSP CONTROL SELECT INPUT
DWR WRITE ENABLE OUTPUT ("L":WABLE) (when DSP is low)
E ADDRESS 4 INPUT (when DSP is high)
EAA ADDRESS BUS INPUT
PLD1 FIELD REPERNCE INPUT ("L":FILD 1)
FRMI FRAME SIGNAL OUTPUT
GCS1 COMPOSITE SYNC INPUT
GCS1 COMPOSITE SYNC INPUT
GLSY LOST SYNC YEAG OUTPUT
HD1 HORIZONTAL SYNC OUTPUT
LPR LTC READ REQUEST OUTPUT
LPR LTC READ REQUEST OUTPUT ("L":RESET)
LSBO SYNCHRONOUS SIGNAL OUTPUT
LOTO LTC SIGNAL OUTPUT
FON SYSTEM RESET INPUT ("L":PON)
RCS1 COMPOSITE SYNC INPUT ("L":PON)
RCS1 COMPOSITE SYNC INPUT ("L":RESET)
RSS RESET INPUT ("L":RIM)
RFLD FIELD DATA OUTPUT
RSSS RESET INPUT ("L":RESET)
RNC FIELD DATA OUTPUT
RTM TIME ADDRESS RESET INPUT ("L":RESET)
RNDO VITC READ DATA OUTPUT

SIGNAL FORMAT SELECT INPUT
"H":NTSC/PAL-M 29.94HZ 575LINE
"L":PAL/SECAM 25.94HZ 575LINE
SELECT CLOCK INPUT
SLCK "L" "B"
CKIN 14.318HBZ 14.5MHZ 7.159MHZ 7.25HHZ
SPEC SMPTE BBU SMPTE EBU
STANDBY READ FLAG INPUT
STANDBY READ FLAG INPUT
STOP OUTPUT ("L":STOP)
LONGITUDINAL TIME AND CONTROL CODE INPUT
STAT3 sı STBY STOP TCIN TST1 LONGITUDIAGE TIPE AND CONTROL TST3
TEST INPUT
LTC CLOCK INPUT
HORIZOWTAL SYNC DRIVE OUTPUT
VITC SIGNAL INPUT
VITC GATE SIGNAL OUTPUT
VITC SIGNAL OUTPUT
VITC SIGNAL OUTPUT
VITC SIGNAL OUTPUT VCEI VDO VITC VTGO

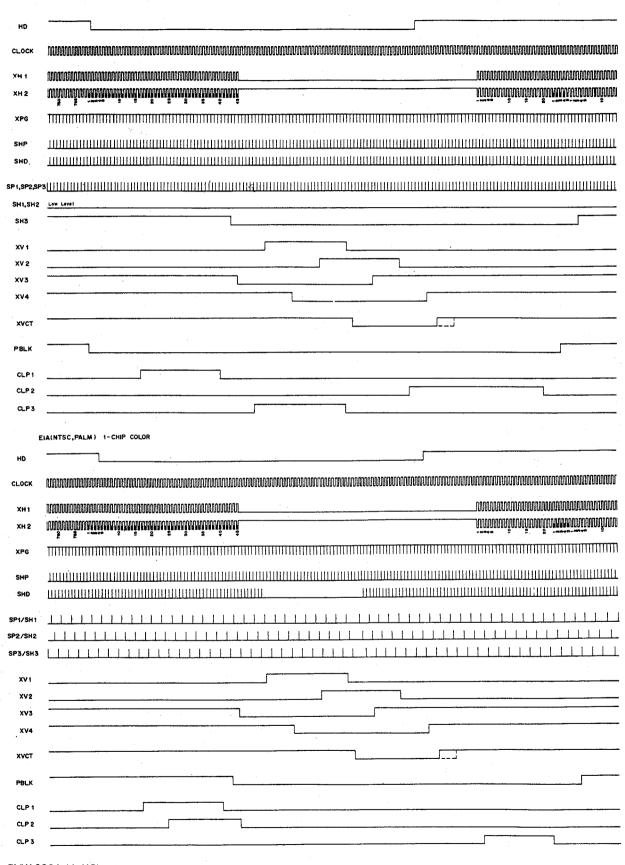
HD XH I XPG SHF SP1,SP2,SP3 SH3 XV 1 XV3 XV4 XVCT PBLK CLP CLP 2 ELA(NTSC.PALM) 1-CHIP COLOR HD XH1 *กนทัพนกับก*นทั้งเกิดเหลือนหลังเหลือนที่สามนักมานั้นยหลึ่งเกลโกลเล้ XH2 SHP XV1 XV3 XVCT PBLK CLP 1

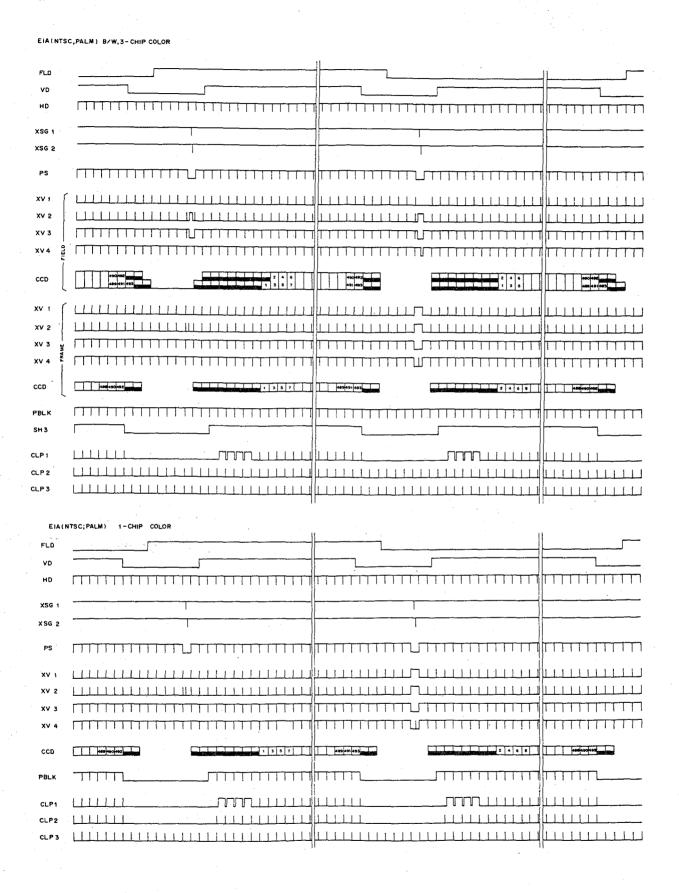
EIA (NTSC, PALM) B/W, 3-CHIP COLOR

DEMICONDOCION LLECONOCEO

<u>⊇</u>

EIA (NTSC, PALM) B/W,3-CHIP COLOR





XIM1 26 XIM2 27 XIM3 28 XIM4 29

30 31 32 33 XST! XST2 XST3 XST4

24 25

5 6 4 35 XHI XH2 XPG

xse :

XS62

xsva

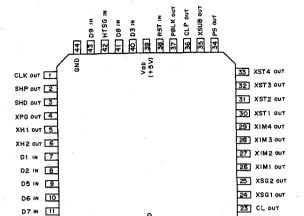
42 HTSG

38 RST 16 TEST

CXD8002 (SONY)

C-MOS TIMING PULSE GENERATOR FOR CCD - TOP VIEW -

2 5 4 XV3 out XV1 out



9 1 2 2 2 2

XCK OUT

CP IN CK ir

2 유

TEST IN

FS OUT

ı	MODE	SELECT				
1		LOW LEVEL	HIGH LEVEL			
1	DI	CCIR	EIA			
	D2	FRAME	FIELD			

SHUTTER SPEED SELECT									
D4	D4 D5 D6		D7	SHUTTER SPEED (sec)					
0	0	0	1	OFF					
0	0	1	1	1/125					
0	1	0	1	1/250					
0	1	1	1	1/500					
1	0	0	1	1/1000					
1	0	1	1	1/2000					
1	1	0	1	1/4000					
1	1	1	1	1/10000					
×	х	х	0	1/100 (EIA) 1/60 (CCIR)					

0 : LOW LEVEL 1 : HIGH LEVEL X : DON'T CARE

21 HD 22 VD SHP SHD CLP PBLK 37 FS CLK 19 XCX 23 CL 23 XV1 13 XV3 14

CK : CLOCK INPUTS

XCK : INVERTED CLOCK OUTPUT

CLK. CL : CLOCK OUTPUTS

HD : VERTICAL DRIVE INPUT

STORY

XSG1 .XSG2

XIM1 - XIM4

CLOCK OUTPUTS FOR READ OUT FROM IMAGE SENSOR

CLOCK OUTPUTS FOR STORAGE REGISTOR DRIVE OF CCD

VERTICAL DRIVER POWER SAVE PULSE OUTPUT

SAUB

SHD

CHORAL STORY

CLOCK OUTPUTS EDISCHARGING PULSE OUTPUT

PRE-CHARGE LEVEL SAMPLE & HOLD PULSE OUTPUT

PRE-CHARGE LEVEL SAMPLE & HOLD PULSE OUTPUT

CLAMP PULSE OUTPUT

PRE-BLANKING PULSE OUTPUT

PRE-BLANKING PULSE OUTPUT

PRE-BLANKING PULSE OUTPUT

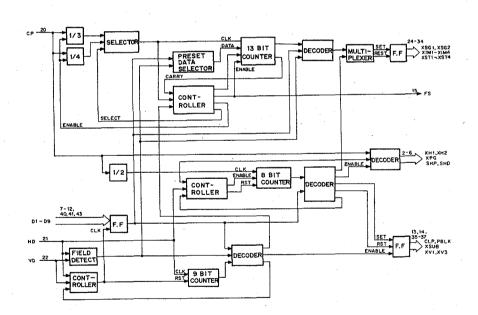
PRE-BLANKING PULSE OUTPUT

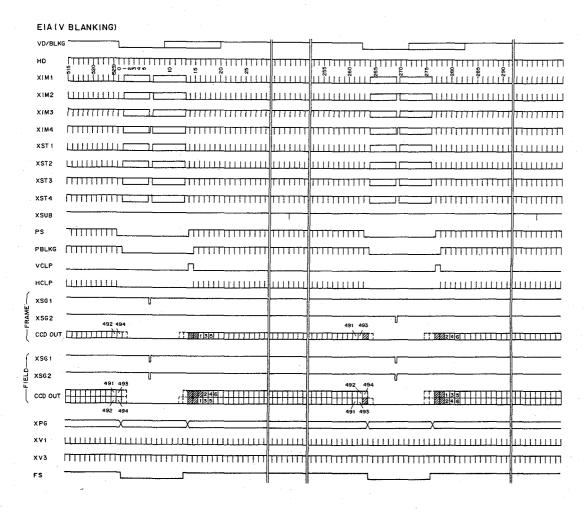
RST. TEST MODE SIGNAL INPUTS

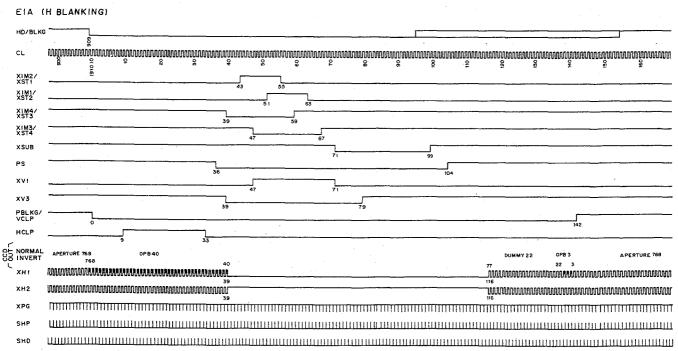
DI - D3, D8, D9 MODE SELECT SIGNAL INPUTS

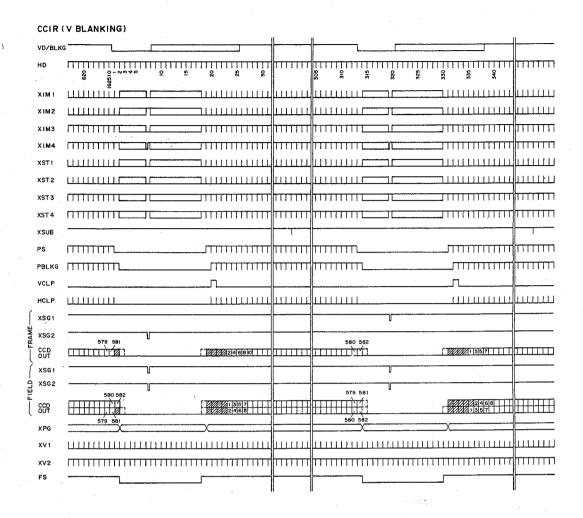
D4 - D7

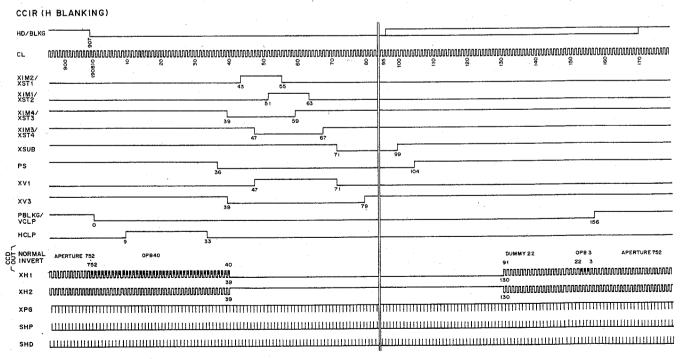
SHUTTER SPEED MODE SIGNAL INPUTS

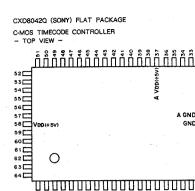






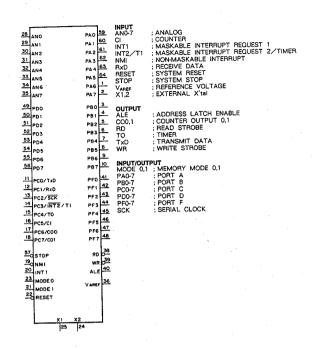


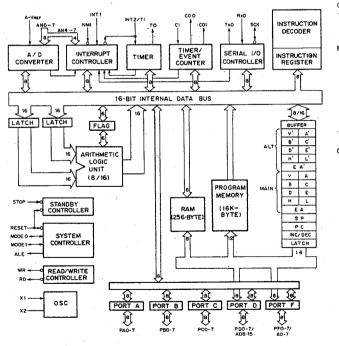


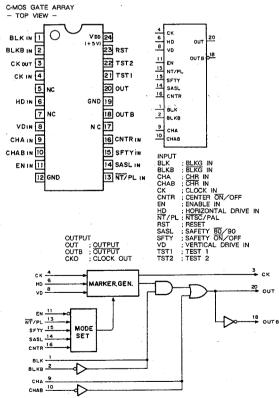


,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	Ø	SIGNAL
1	1/0	PA6	17	1/0	PC6/CO0	33	_	AN5	49	6	PD0
2	1/0	PA7	18	1/0	PC7/CO1	34	_	AN6	50	1/0	PD1
3	1/0	P80	19	T	NMI	35	1	AN7	51	1/0	PD2
4	1/0	PB1	20	1	INT	36	_	VAREF	52	l⁄O.	PD3
5	1/0	PB2	21	8	MODE1	37	-	A Vod	53	1/0	PD4
6	1/0	PB3	22	1	RESET	38	0	RD	54	1/0	PD5
7	1/0	PB4	. 23	ΙØ	MODE0	39	0	WR .	55	1/0	PD6
8	1/0	PB5	24		X2	40	0	ALE	56	1/0	PD7
9	1/0	P86	25		X1	41	1/0	PF0	57	1	STOP
10	1/0	PB7	26		GND	42	2	PF1	58	-	Voo
11	VO	PC0/TxD	27	_	A GND	43	1/0	PF2	59	9	PA0
12	VO	PC1/RxD	28	1	AN0	44	ΙØ	PF3	60	20	PA1
13	1/0	PC2/SCK	29	T	AN1	45	1/0	PF4	61	1/0	PA2
14	1/0	PC3/INT2/TI	30	ī	AN2	46	1/0	PF5	62	1/0	PA3
15	1/0	PC4/TO	31	1	AN3	47	1/0	PF6	.63	1/0	PA4
16	1/0	PC5/Ci	32	1	AN4	48	1/0	PF7	64	10	PA5

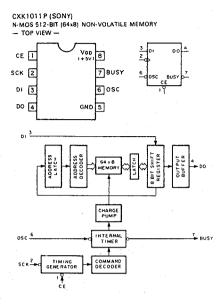
A GND 27 GND 26





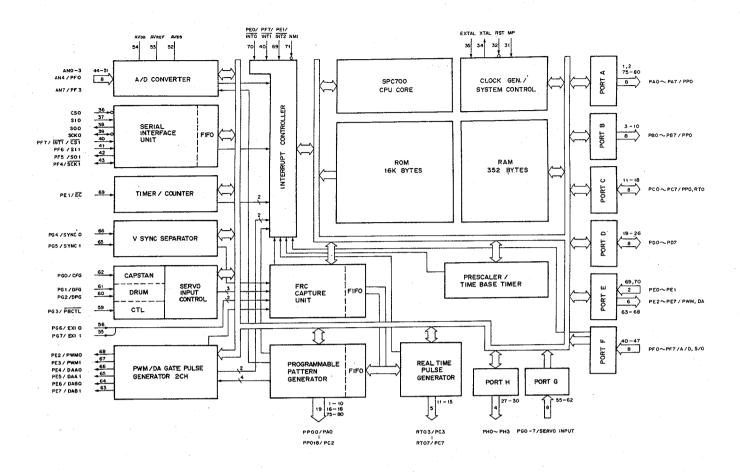


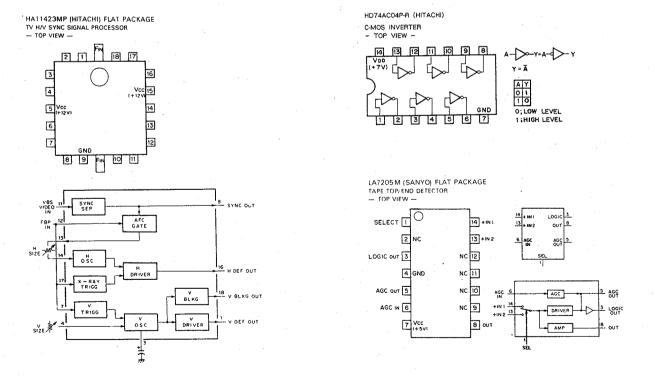
CXD8154M (SONY)

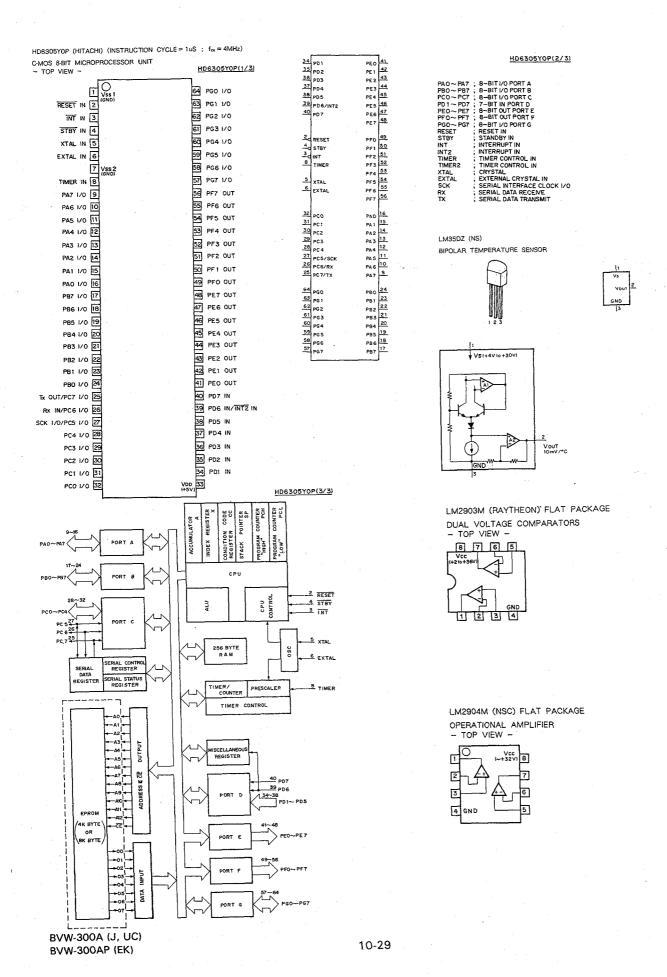


					$(V_{DD} = + 5V)$
PiN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	0	PA1/PPO1/A9	41	- 1	PF6/SI1
2	0	PA0/PPO0/A8	42	1/0	PF5/SO1
ω	0	PB7/PPO15/A7	43	1,1/0	PF4/SCK1
4	0	PB6/PPO14/A6	44	_	PF3/AN7
5	0	PB5/PPO13/A5	45	1	PF2/AN6
6	0	PB4/PPO12/A4	46	-	PF1/AN5
7	0	PB3/PPO11/A3	47	1	PF0/AN4
8	0	PB2/PPO10/A2	48	1	AN3
9	0	PB1/PPO9/A1	49	-1	AN2
10	0	PB0/PPO8/A0	50	I	AN1
11	1/0,0,1/0	PC7/RTO7/D7	51	1	AN0
12	1/0,0,1/0	PC6/RTO6/D6	52	-	A-GND
13	1/0,0,1/0	PC5/RTO5/D5	53	_	A-VREF
14	1/0.0.1/0	PC4/RTO4/D4	54	. =	A-Voo
15	1/0,0,1/0	PC3/RTO3/D3	55	1	PG7/EXI1
16	VO,O,VO	PC2/PPO18/D2	56	T .	PG6/EXI0
17	1/0,0,1/0	PC1/PPO17/D1	57	. 1	PG5/SYNC1
18	1/0,0,1/0	PC0/PPO16/D0	58	1	PG4/SYNC0
19	1/0,0	PD7/HALT	59	T	PG3/PBCTL
20	1/0,0	PD6/BRQ	60	1	PG2/DPG
21	1/0,0	PD5/BAK	61	1	PG1/DFG
22	1/0,0	PD4/SYNC	62	1	PG0/CFG
23	1/0,0	PD3/C	63	0	PE7/DAB1
24	1/0,0	PD2/R/W	64	0	PE6/DAB0
25	1/0,0	PD1/WR	65	0	PE5/DAA1
26	1/0,0	PD0/RD	66	0	PE4/DAA0
27	0	PH3	67	0	PE3/PWM1
28	0	PH2	68	0	PE2/PWM0
29	0	PH1	69	1	PE1/EC/INT2
30	0	PH0	70	1	PEO/INTO
31	1	MP	71	1	NMI
32	1/0	RST	72	-	VDD
33	-	GND	73		GND
34	0	XTAL	74	-	NC
35	1	EXTAL	75	0	PA7/PPO7/A15
36	1	CS0	76	0	PA6/PPO6/A14
37	1	SIO	77	0	PA5/PPO5/A13
38	0	SO0	78	ō	PA4/PPO4/A12
39	1/0	SCK0	79	Ö	PA3/PPO3/A11
40	1	PF7/INT1/CS1	80	0	PA2/PPO2/A10

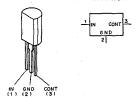
			10	INPUT	: ANALOG INPUTS
16	PC0 / PP016 / 00	PB0/PP08/A0	9	ANO - AN7 BRO	: BUS REQUEST INPUT
17	PC1 / PP017 / D1	PB1 / PP09/A1	_	CFG	CAPSTAN FG INPUT
16	PC2 /PP018 / 02	PB2/PP010/A2	8	CS0.1	CHIP SELECT INPUTS
15	PC3 /RT03/D3	PB3 /PP011/ A3	7	DFG	: DRUM FG INPUT
14		PB4 /PP012/ A4	6	DPG	: DRUM PG INPUT
13			5	EC	EVENT INPUT
	PC5 /RT05 / 05	PB5/PP013/A5	4	EXI0.1	EXTERNAL INPUTS
12	PC6 /RT06 / 06	P86/PP014/A6		EXTAL	SYSTEM CLOCK GENERATE JOINT
11	PC7 / RT07 / D7	PB7/PP15/A7	3	HALT	: CPU STOP INPUT
		PAO /PP00/A8	2	INTO - INT2	EXTERNAL OFFERING INPUTS
51		PA1 / PP01/A9	1	MP	: MICRO PROSESSOR MODE INPUT
50	ANO		60	NMI	: NONMASKABLE OFFERING INPUT
	ANI	PAZ/PPOZ/ATO	79	PBCTL	: PB CTL PULSE INPUT
49	ANS	PA3/PP03/A11	_	PE0.1	; PORT E INPUTS
48	AN3	PA4/PP04/A12	78	PFO - PF7	: PORT F INPUTS
47	PFO / AN4	PA5/PP05/A13	77	PG0 - PG7	; PORT G INPUTS
46		PA6/PP06/A14	76	\$10.1	: SERIAL DATA INPUTS
45	PF1/AN5		75	SYNC0,1	: COMPOSITE SYNC INPUTS
44	PF2/AN6	PA7/PP07/ A15			
	PF3/AN7			OUTPUT	ADDRESS DUS OUTDUTS
		PE2 / PWMO	68	A0 A15	: ADDRESS BUS OUTPUTS
52	PGO/CFG	PE3/ PWM1	67	BAK	: BUS ACKNOWLEGE OUTPUT : TIMING SIGNAL OUTPUT
61		PE 4/ DAAO	66	C	DA GATE PULSE OUTPUTS
60	1.01.7.010		65	DAA0,1 DAB0,1	DA GATE PULSE OUTPUTS
59	PG2 / DFG	PES / DAA I	64	PAO - PA7	PORT A OUTPUTS
	PG3 / PBCTL	PEG / BABO	63	PB0 - PB7	PORT B OUTPUTS
58	PG4 / SYNC O	PE7 / BABI	63	PE2 - PE7	PORT E OUTPUTS
57	PG5 / SYNC 1		l	PH0 - PH3	PORT H OUTPUTS
56	PG6 / EX10	PHO	30	PPO0 - PPO18	PROGRAMMABLE PATTERN
55	ı	PHI	29		GENERATOR OUTPUTS
	PG7 / EX11		28	PWM0.1	: PWM OUTPUTS
		PH2	27	R/W	CPU MACHINE SYCLE
26	PD0 / RD	PH3		RD	; READ
25	P01 / WR .		l	RT03 - RT07	REAL TIME PULSE OUTPUTS
24	P02 / R / W	MP	31	SO0,1	: SERIAL DATA OUTPUTS
23	P03/C	RST	32	SYNC	; SYNC
22	PD4 / SYNC	1131	38	WR	: WRITE
21		900	39	XTAL	: SYSTEM CLOCK GENERATER OUTPUT
	PDS / BAK	scko			
20	PD6 / BRQ	PF5/S01	42	INPUT/QUTPUT	DATA BUG
19	PD7 / HALT	PF4/SCK1	43	D0 - D7 PC0 - PC7	; DATA BUS : PORT C
	l		1	PD0 - PD7	PORT D
35	EXTAL	XTAL	34	RST	: RESET
36		AIRL	1	SCK0.1	: SERIAL CLOCK
37	1		ł	35K0.1	, outline orook
	SID		1		
40	Pri / INII / Cas		!		
41			l .		
69	PE1 / EC / INTE				



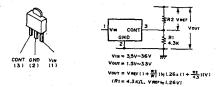




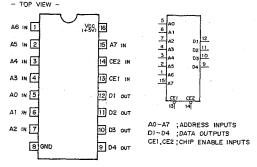
M5236L (MITSUBISHI) ADJUSTABLE VOLTAGE REGULATOR

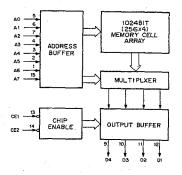


M5237ML (MITSUBISHI) ADJUSTABLE VOLTAGE REGULATOR



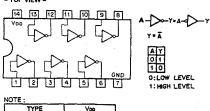
MB7114LPF (FUJITSU) (ACCESS TIME = 50nS) FLAT PACKAGE TTL 1024-BIT (256x4) PROM - TOP VIEW -





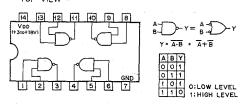
SN74HCU04ANS (TI) FLAT PACKAGE



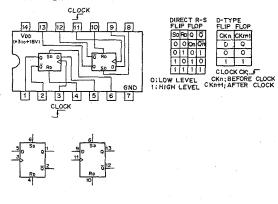


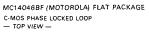
+5V +2 to +5.5V

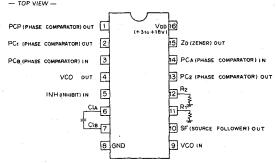
MC14011BF (MOTOROLA) FLAT PACKAGE C-MOS 2-INPUT NAND GATE - TOP VIEW -

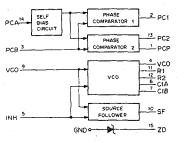


MC14013BF (MOTOROLA) FLAT PACKAGE C-MOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET - TOP VIEW -

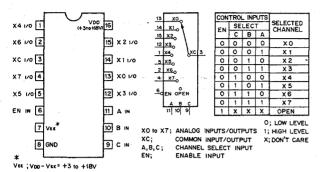






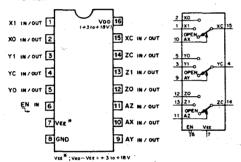


MC14051BF (MOTOROLA) FLAT PACKAGE C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -



TC4053BFHB (TOSHIBA) FLAT PACKAGE MC14053BF (MOTOROLA) FLAT PACKAGE

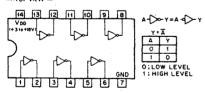
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER



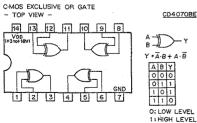
	CON	T. INPUTS	ON
	EN	A (X,Y,Z,)	CHANNEL
W LEVEL	0	0	0
H LEVEL	0	1	1
NT CARE.	1	×	OPEN

TC4069UBF (TOSHIBA) FLAT PACKAGE MC14069UBF (MOTOROLA) FLAT PACKAGE

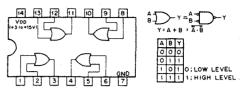
C-MOS INVERTER



MC14070BF (MOTOROLA) FLAT PACKAGE C-MOS EXCLUSIVE OR GATE



BVW-300A (J, UC) BVW-300AP (EK) TC4071BF (TOSHIBA)
MC14071BF (MOTOROLA) FLAT PACKAGE
C-MOS 2-INPUT OR GATE
— TOP VIEW —

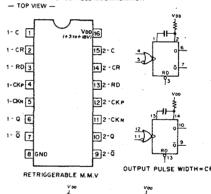


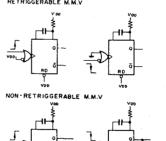
MC14081BF (MOTOROLA) FLAT PACKAGE

CMOS 2:INPUT AND GATE

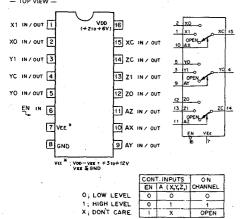
- TOP VIEW
- TOP VIEW -

TC4538BF (TOSHIBA) FLAT PACKAGE TC74HC4538F (TOSHIBA) FLAT PACKAGE MC14538BF (MOTOROLA) FLAT PACKAGE C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR





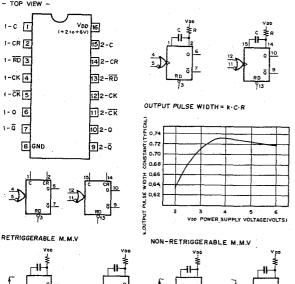
MC74HC4053F (MOTOROLA) FLAT PACKAGE TC74HC4053AF (TOSHIBA) FLAT PACKAGE C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -



MC74HC4538F (MOTOROLA) FLAT PACKAGE TC74HC4538F (TOSHIBA) FLAT PACKAGE

C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR - TOP VIEW -

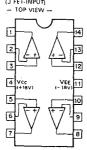




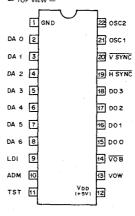
NJM062M (JRC) FLAT PACKAGE TLOG2CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(JFET INPUT)
-- TOP VIEW ---

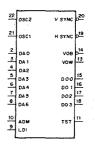


NJM064M (JRC) FLAT PACKAGE TLOGACNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
-- TOP VIEW --



MN1237AD (MATSUSHITA)
C-MOS INDICATES DATA OF 60 CHARACTERS CRT INTERFACE
— TOP VIEW —



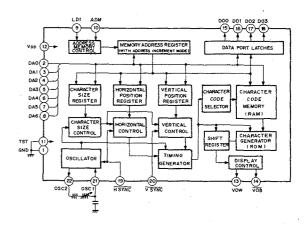


ADM ; ADDRESS MODE SELECT IN DAO~DA6 DOO~DO3 H SYNC LDI 0501,2

; DATA BUS INPUT ; GENERAL OUTPUT ; H SYNC INPUT STROBE PULSE INPUT

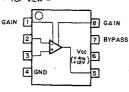
TST VOB VOW V SYNC

OSC TEST BACKGROUND OUTPUT CHARACTERS OUTPUT : V SYNC INPUT



ABCDEFGHIJ KLMNOPORST VWXYZ 34 56

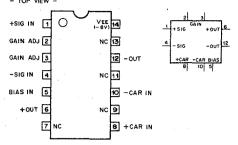
NJM386M (JRC) FLAT PACKAGE AUDIO POWER AMPLIFIER - TOP VIEW -



NJM4559M (JRC) FLAT PACKAGE OPERATIONAL AMPLIFIER TOP VIEW



RC1496M (RAYTHEON) FLAT PACKAGE BALANCED MODULATOR/DEMODULATOR - TOP VIEW -



RC2041MD (RAYTHEON) FLAT PACKAGE OPERATIONAL AMPLIFIER

- TOP VIEW -



RC2043MD (RAYTHEON) FLAT PACKAGE OPERATIONAL AMPLIFIER - TOP VIEW -



RC4556MA (RAYTHEON) FLAT PACKAGE OPERATIONAL AMPLIFIER (WIDE BAND, DECOMPENSATED) - TOP VIEW -



RC4558M (RAYTHEON) FLAT PACKAGE UPC4558G2 (NEC) FLAT PACKAGE OPERATIONAL AMPLIFIER - TOP VIEW -



S-8054HN-CB (SEIKO) +6V VOLTAGE DETECTOR WITH N-CHANNEL OPEN DRAIN OUTPUT — TOP VIEW —





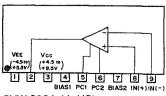
S-81230AG-RB (SEIKO) FLAT PACKAGE THREE FERMINAL POSITIVE VOLTAGE REGULATOR - TOP VIEW -



OUTPUT VOLTAGE	5-8127777-77
+2.5V	S-81225AG-RH
+3.0V	S-81230AG-RB
+5.0V	S-81250HG-RD

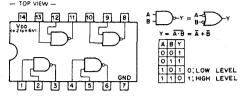


SBX1588 (SONY) VIDEO AMPLIFIER - SIDE VIEW -



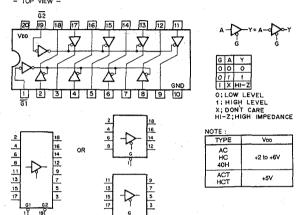
BVW-300A (J, UC) BVW-300AP (EK)

SN74HC00NS (TI) FLAT PACKAGE C-MOS 2-INPUT NAND GATE — TOP VIEW —

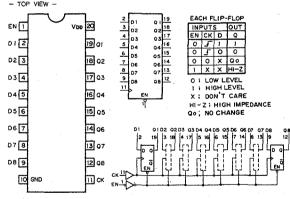


SN74HC244NS (TI) FLAT PACKAGE

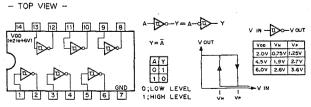
C-MOS BUS BUFFER WITH 3-STATE OUTPUTS - TOP VIEW -



SN74HC574NS (TI) (V $_{\rm SD}$ = + 2 to + 6V) FLAT PACKAGE C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP - TOP VIEW -

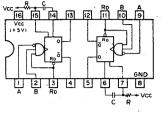


SN74HC14NS (TI) FLAT PACKAGE C-MOS SCHMITT TRIGGER INVERTER



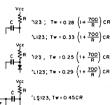
. 0





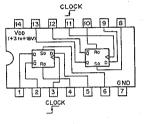
ı	INF	, 01	rs	0011	-015	
	Ŕв	A	8	œ	্ব	
	٥	х	X	0	1	
į	X	1	x	٥	1	
	X	х	0	0	1	-
	1	0	1	7	ਪ	O; LOW LEVEL
	1	Ŧ	1	7	7	1; HIGH LEVEL
	1	0	1	ς	J	X; DON'T CARE

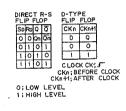
OUTPUT PULSE WIDTH



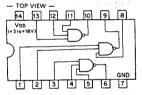
TC4013BF (TOSHIBA) FLAT PACKAGE
TC504013BF (TOSHIBA) FLAT PACKAGE
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
— TOP VIEW —

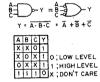
TC4013BF



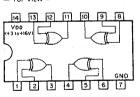








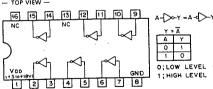
TC4030BFHB (TOSHIBA) FLAT PACKAGE C-MOS EXCLUSIVE OR GATE — TOP VIEW —





TC4049BF (TOSHIBA) FLAT PACKAGE C-MOS INVERTING TYPE BUFFER/CONVERTER

— TOP VIEW —

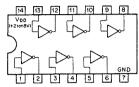


MC14050BF (MOTOROLA) FLAT PACKAGE TC4050BF (TOSHIBA) FLAT PACKAGE C-MOS NON-INVERTING TYPE BUFFER/CONVERTER CD4050AE/BE 16 15 14 13 12 11 10 9 NC | NC | 1 0 0 0 ; LOW LEVEL 1 ; HIGH LEVEL

7 8

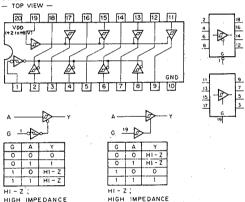
TC40H004F (TOSHIBA) FLAT PACKAGE C-MOS INVERTER

— TOP VIEW ---

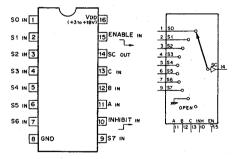




TC40H241F (TOSHIBA) FLAT PACKAGE C-MOS 3-STATE SCHMITT TRIGGER BUFFER/LINE DRIVER --- TOP VIEW ---

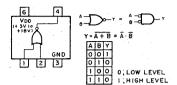


TC4512BF (MOTOROLA) FLAT PACKAGE C-MOS 8-CHANNEL DATA SELECTOR/MULTIPLEXER --- TOP VIEW ---

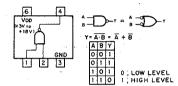


CON	ITRO	LI	NPU'	TS	OUTPUT	· ·
EN	INH	С	В	Α	SC	
0	0	0	0	0	so	1
0	0	0	0	1	S 1	
0	0	0	1	0	\$2	
0	0	0	1	1	\$3	
0	0	1	0	0	\$4	
0	0	1	0	1	\$5	
0	0	1	1	0	56	
0	0	1	1	1	\$7	O;LOW LEVEL
0	1.	Х	Х	X	GND	1:HIGH LEVEL
	Х	X:	X	Х	OPEN	X;DON'T CARE

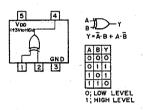
TC4S01F (TOSHIBA) FLAT PACKAGE C MOS 2-INPUT NOR GATE — TOP VIEW —



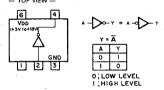
TC4S11F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT HAND GATE — TOP VIEW —



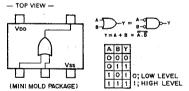
TC4S30F (TOSHIBA) FLAT PACKAGE C-MOS EXCLUSIVE OR GATE - TOP VIEW -



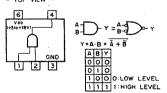
TC4S69F (TOSHIBA) FLAT PACKAGE
TC4SU69F (TOSHIBA) FLAT PACKAGE
C-MOS INVERTER BUFFER
— TOP VIEW —



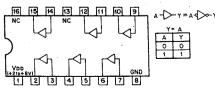
TC4S71F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT OR GATE



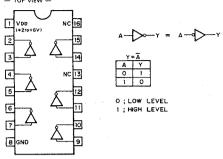
TC4S81F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT AND GATE - TOP VIEW -



TC50H001F (TOSHIBA) FLAT PACKAGE
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —

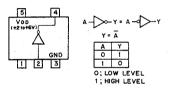


BVW-300A (J, UC) BVW-300AP (EK) TC74HC4049F (TOSHIBA) FLAT PACKAGE C-MOS HEX BUFFER/CONVERTER (INVERTING) — TOP VIEW —



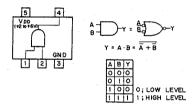
SC7S04F (MOTOROLA) FLAT PACKAGE TC7S04F (TOSHIBA) FLAT PACKAGE

C-MOS INVERTER - TOP VIEW -



TC7508F (TOSHIBA) FLAT PACKAGE

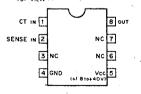
C-MOS 2-INPUT AND GATE



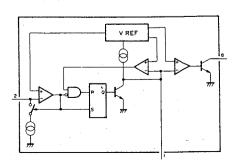
TL072CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(LOW-NOISE, JFET-INPUT)
— TOP VIEW —



TL7700CPS (TI) FLAT PACKAGE VARIABLE SUPPLY VOLTAGE SUPERVISOR — TOP VIEW —



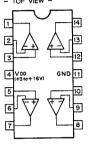




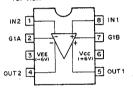
TLC27L2CPS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER - TOP VIEW -



TLC27L4CN (TI)
C-MOS OPERATIONAL AMPLIFIER
- TOP VIEW -



uPC1663G (NEC) FLAT PACKAGE WIDEBAND VIDEO AMPLIFIER — TOP VIEW —



uPC311G2 (NEC) FLAT PACKAGE VOLTAGE COMPARATOR --- TOP VIEW --



uPC358G2 (NEC) FLAT PACKAGE DUAL OPERATIONAL AMPLIFIERS — TOP VIEW —



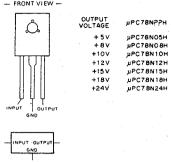
uPC4572G2 (NEC) FLAT PACKAGE

OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE)

TOP VIEW -



uPC78N??H (NEC)
POSITIVE VOLTAGE REGULATOR
— FRONT VIEW —



uPC812G2 (NEC) FLAT PACKAGE

OPERATIONAL AMPLIFIER (JFET INPUT)

TOP VIEW -









TOP VIEW (SCALE 4/1)



2SC2873 2SD1615A



2SK612



2SA1226 2SA1462 2SA1611 2SA1162 2SA812 2SB624

2SK508



3SK163





2SK620

TOP VIEW(SCALE 2/1)



TOP VIEW (SCALE 4/1)



DTA114YK (R1 = 10K, R2 = 47K) DTA144EU

258907

2SD1221





DTC114EU (R1 = 10K, R2 = 10K) DTC114YU (R1 = 10K, R2 = 47K)

TOP VIEW (SCALE 4/1)



2SC1009A 2SC1623 2SC2713 2SC2757 2SC3360 2SC3661 2SC4177 2SC4178 2SC4213 2SD596 NTM2369

TOP VIEW (SCALE 4/1)

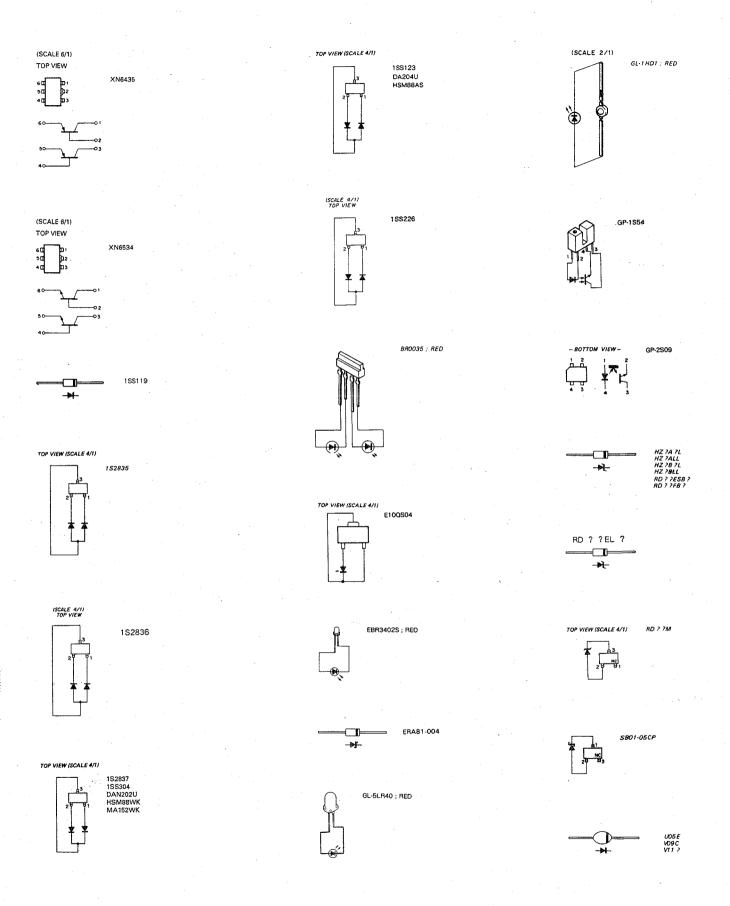






DTC144EU (R1 = 47K, R2 = 47K)

BVW-300A (J, UC) BVW-300AP (EK)



SECTION 11 SCHEMATIC DIAGRAMS

回路図内において、REF.NOの近傍に下記記号が記載されていますが、これは生産時の部品データです。

In the schematic diagrams, the following marks are described near by reference number. These are parts data at factory.

CAPACITOR(C)	RESISTOR(R) VARIABLE RESISTOR(RV)			
AL AS ELECTROLYTIC	RC CARBON			
TA } TANTALUM	RF } FUSE			
CA CC	RN METAL			
CCS CERAMIC	RW } WIREWOUND			
CM				
cs J				
MPS				
PP MYLAR				
PS MILAN				
PT				
MD) DIPPED MICA				
MS } MICA				

CIRCUIT FUNCTION OF THE SCHEMATIC DIAGRAMS

Γ.		
SYSTEM	CIR CUIT BOARD	CIRCUIT FUNCTION
	CN-273	Connector PCB for B1-22, 23 and 24
	B I - 2 2 B I - 2 3 B I - 2 4	CCD mount
	*3 TG-57P TG-162P TG-163 TG-121	Timing Generator
	*3 P A - 101 P A - 155	Pre-amp(Sample & Hold)
	DR-84	CCD Driver
	*3 V A - 83 V A - 168	Video Amp, Black Set, Total Gain Chage, Shading Compensator
-	IE-30AP IE-31	lmage Enhancer Aperture
CAMERA	PR-176 PR-177/ BP-020 PR-178/ BP-021	Gamma, Masking, Knee, Slope, W. Clip, Dynamic Contrast Control
•	EN-79P	Y/R-Y/B-Y Signal Generator for VTR, Encoder, Color Bars Generator
	SG-152P SG-157P	Sync Generator, Genlock for TC, Sub-regulator
	*3 AT-49A AT-49C	Auto white/black Function, VF Character Generator, System Controller, Audio Level Detector
	SW-220	SAVE-STBY, Color Bars ON/OFF, DCC ON/OFF, Memory A/B/Preset SW
	SW-357B	Auto White/Black SW VTR Start/Stop SW Shutter ON/OFF Select
	VR-77	Master Black VR
	IF-298AP	26P Interface, Logic VF Marker Gen.
	CN-400	Connector PCB for 1F-298

SYSTEM CIRCUIT BOARD VIDEO VDA-11P CTDM and C-Modulator AFM-6P Y-Modulator, AFM VP-24P Video Playback, Head Select Pulse Generator AUDIO AUDIO			
VIDEO AFM-6P Y-Modulator, AFM VP-24P Video Playback, Head Select Pulse Generator AU-97P Audio REC/PB Processor TB-5 Terminal Board, Audio Confi PB FL-55P Audio Head AMP, Relay Board for TB and A/T Head SERVO SV-97AP Drum/Capstan Servo SYSTEM CONTROL KY-124 Function Key Board TIME Code Generator, Audio Level Control, Audio Monitor AMP, SW and Indicator for Audio and TC VR-70 Volume *1 POWER PS-162	SYSTEM		CIRCUIT FUNCTION
VP-24P Video Playback, Head Select Pulse Generator AUDIO AUDIO AUDIO AUDIO AUDIO AUDIO TB-5 Terminal Board, Audio Confi PB FL-55P Audio Head AMP, Relay Board for TB and A/T Head SERVO SYSTEM CONTROL KY-124 Function Key Board TIME Code Generator, Audio Level Control, Audio Monitor AMP, SW and Indicator for Audio and TC VR-70 Volume *1 POWER PS-162		V D A - 11P	CTDM and C-Modulator
VP-24P Video Playback, Head Select Pulse Generator AU-97P Audio REC/PB Processor TB-5 Terminal Board, Audio Confi PB FL-55P Audio Head AMP, Relay Board for TB and A/T Head SERVO SV-97AP Drum/Capstan Servo SYSTEM CONTROL KY-124 Function Key Board TIME CODE Time Code Generator, Audio Level Control, Audio Monitor AMP, SW and Indicator for Audio and TC VR-70 Volume *1 POWER PS-162	VIDEO	AFM-6P	Y-Modulator, AFM
AUDIO TB-5 Terminal Board, Audio Confi PB FL-55P Audio Head AMP, Relay Board for TB and A/T Head SERVO SV-97AP Drum/Capstan Servo SYSTEM SY-117CP System Control KY-124 Function Key Board TIME Code Generator, Audio Level Control, Audio Monitor AMP, SW and Indicator for Audio and TC VR-70 Volume #1 POWER PS-162		VP-24P	, ,
FL-55P Audio Head AMP, Relay Board for TB and A/T Head SERVO SV-97AP Drum/Capstan Servo SYSTEM SY-117CP System Control KY-124 Function Key Board TIME Code Generator, Audio Level Control, Audio Monitor AMP, SW and Indicator for Audio and TC VR-70 Volume #1 POWER PS-162		AU-97P	Audio REC/PB Processor
FL-55P Audio Head AMP, Relay Board for TB and A/T Head SERVO SV-97AP Drum/Capstan Servo SYSTEM SY-117CP System Control CONTROL KY-124 Function Key Board TIME TC-48AP TC-48AP TC-48BP AMP, SW and Indicator for Audio and TC VR-70 Volume #1 POWER PS-162	A IIDIO	TB-5	Terminal Board, Audio Confi PB
SYSTEM SY-117CP System Control CONTROL KY-124 Function Key Board *1 TC-48AP TC-48BP TC-48BP TC-48BP VR-70 VR-70 Volume *1 POWER PS-162		FL-55P	1 1
CONTROL KY-124 Function Key Board *1 TC-48AP Level Control, Audio Monitor AMP, SW and Indicator for Audio and TC VR-70 Volume *1 POWER PS-162	SERVO	SV-97AP	Drum/Capstan Servo
TIME TOPE #1 Time Code Generator, Audio Level Control, Audio Monitor AMP, SW and Indicator for Audio and TC VR-70 Volume #1 POWER PS-162		SY-117CP	System Control
TIME CODE TC-48AP Level Control, Audio Monitor AMP, SW and Indicator for Audio and TC VR-70 Volume #1 POWER PS-162		K Y - 12 4	Function Key Board
#1 POWER PS_162		TC-48AP	Level Control, Audio Monitor AMP, SW and Indicator for
POWER PS-162		VR-70	Volume
PS-162B Power Distributor	POWER	PS-162	Power Distributor
FE-4 Full Erase, Dew and End Sensor	SENSOR	FE-4	Full Erase, Dew and End Sensor
SENSOR LD-21 Loading Motor Driver and END Sensor		LD-21	
SR-40 Mechanical Position Sensor		SR-40	Mechanical Position Sensor

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SYSTEM	CIR CUIT BOARD	CIRCUIT FUNCTION					
	MB-317AP	Mother Board					
	*2 SW-291 SW-291A	Back Tally					
OTHERS	FL-45	Relay Board for MB and TC					
	FL-46	Relay Board for MB and TC					
	FL-53	Relay Board for TB and SR					
	FL-57	Relay Board for PS and TC					
	HP-43	Headphone					
	EX-148	Extension Board					

SYSTEM	CIR CUIT BOARD	CIRCUIT FUNCTION
	VF-32	Drive and Video Amp for Viewfinder, Peaking Signal Generator
*4 VIEW- FINDER	LP-58	BATT/TALLY, VTR SAVE LED
	LP-40	REC LED
	LP-42	Front Tally LED
	VR-67	Contrast, Bright, Peaking, Audio Level(CH-1) VR
	SW-260A	Tally ON/OFF, Audio Level Indicator ON/OFF, Zebra/Marker ON/OFF SW

	•	
SYSTEM	CIR CUIT BOARD	CIRCUIT FUNCTION
*4 VIEW- FINDER	VF-50	Drive and Video Amp for Viewfinder, Peaking Signal Generator
	LP-64	REC LED
	LP-65	BATT/TALLY, VTR SAVE LED
	LP-66	Front Tally LED
	VR-149	Contrast, Bright, Peaking, Audio Level(CH-1) VR
	SW-562	Tally ON/OFF, Audio Level Indicator ON/OFF, Zebra/Marker ON/OFF SW
	CN-771	Connector for VF Cable

BOARD CHANGE INFORMATION	
OLD NAME → NEW NAME	SERIAL NUMBER
*1 PS-162 PS-162B TC-48AP TC-48BP	42096 and higher
*2	
SW-291 → SW-291A	42131 and higher
*3 TG-57P TG-162P, 163 and 121	
PA-101 → PA-155 VA-83 VA-168	
AT-49A AT-49C	
¥4 VIEWFINDER	44001 and higher
VF-32 VF-50 LP-58 LP-64	
LP-40 LP-65	
LP-42 LP-66	
VR-67 VR-149	
SW-260A SW-562 CN-771(added)	

DR-84, PA-101 | CCD-BLOCK | CCD-BLOCK | DR-84, PA-101 PA-101; CCD PREAMP(S/N; 41954 through 43999) 0.47 35V :TA 016 152897 Q19 Q20 Q21 28C1623 28C1623 28C1623

DR-84 BOARD

1-629-763-14 BVW-300AP(EK)

CCD-BLOCK

DR-84; CCD DRIVE

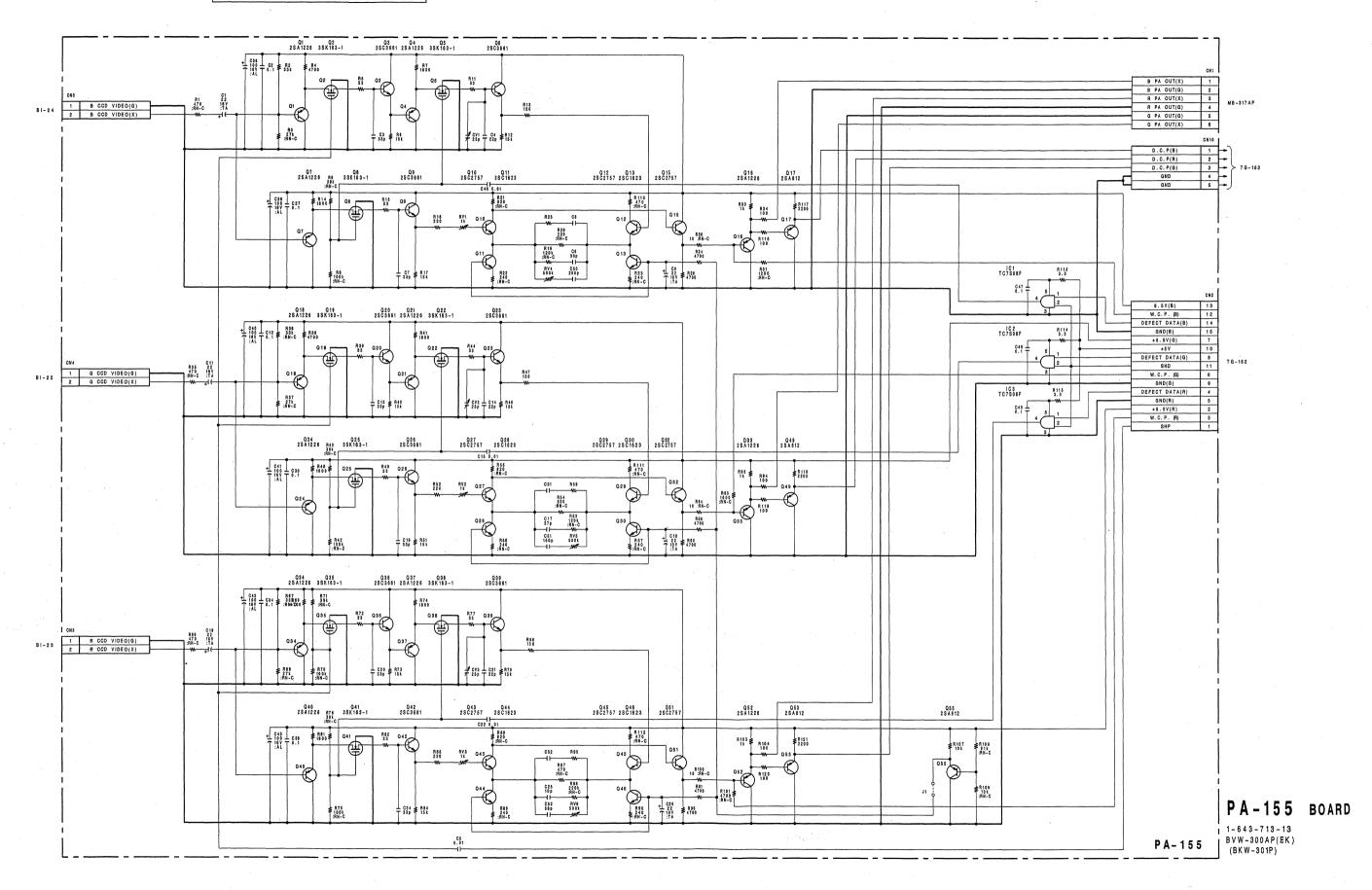
11-5

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PA-155; CCD PREAMP

S/N;44001 and higher



11-7(b)

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11-8(b)

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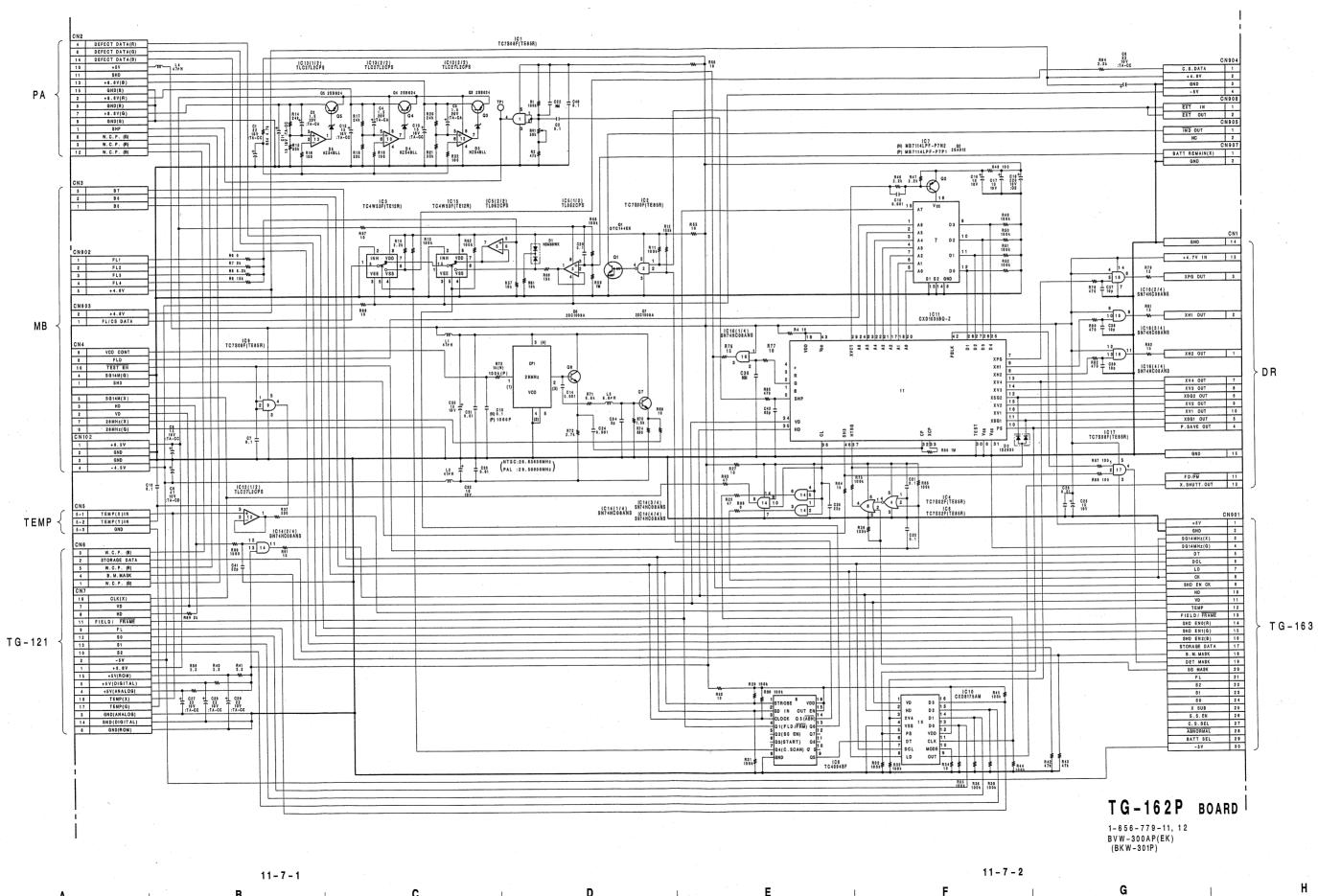


TG-162P CCD BLOCK CCD BLOCK TG-162P

S/N;44001 and higher

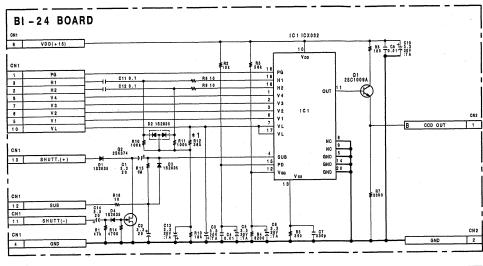
TG-162P:TIMING GENERATOR

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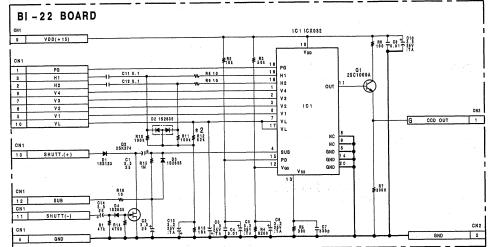




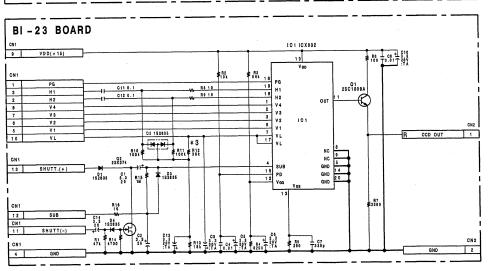
BI-22, BI-23, BI-24; CCD MOUNT



MARK	CHANGE INFORMATION	SERIAL NO
*1	R12 100k 36k	42131-



CHANGE INFORMATION	SERIAL NO.
R12 100k 62k	42131-



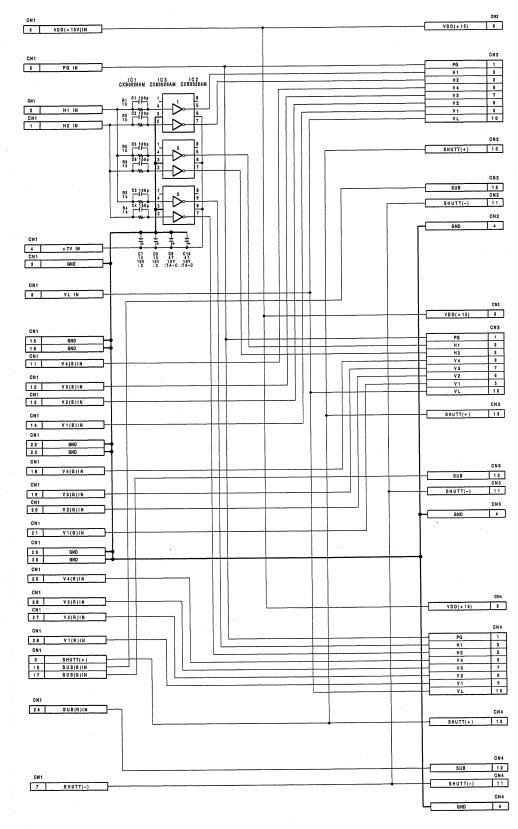
MARK	CHANGE INFORMATION	SERIAL NO.
*3	R12 100k 36k	42131-

B I - 2 2 BOARD 1-626-740-14

B I - 2 3 BOARD 1-626-741-13

B I - 2 4 BOARD 1-626-742-13 BVW-300AP(EK)

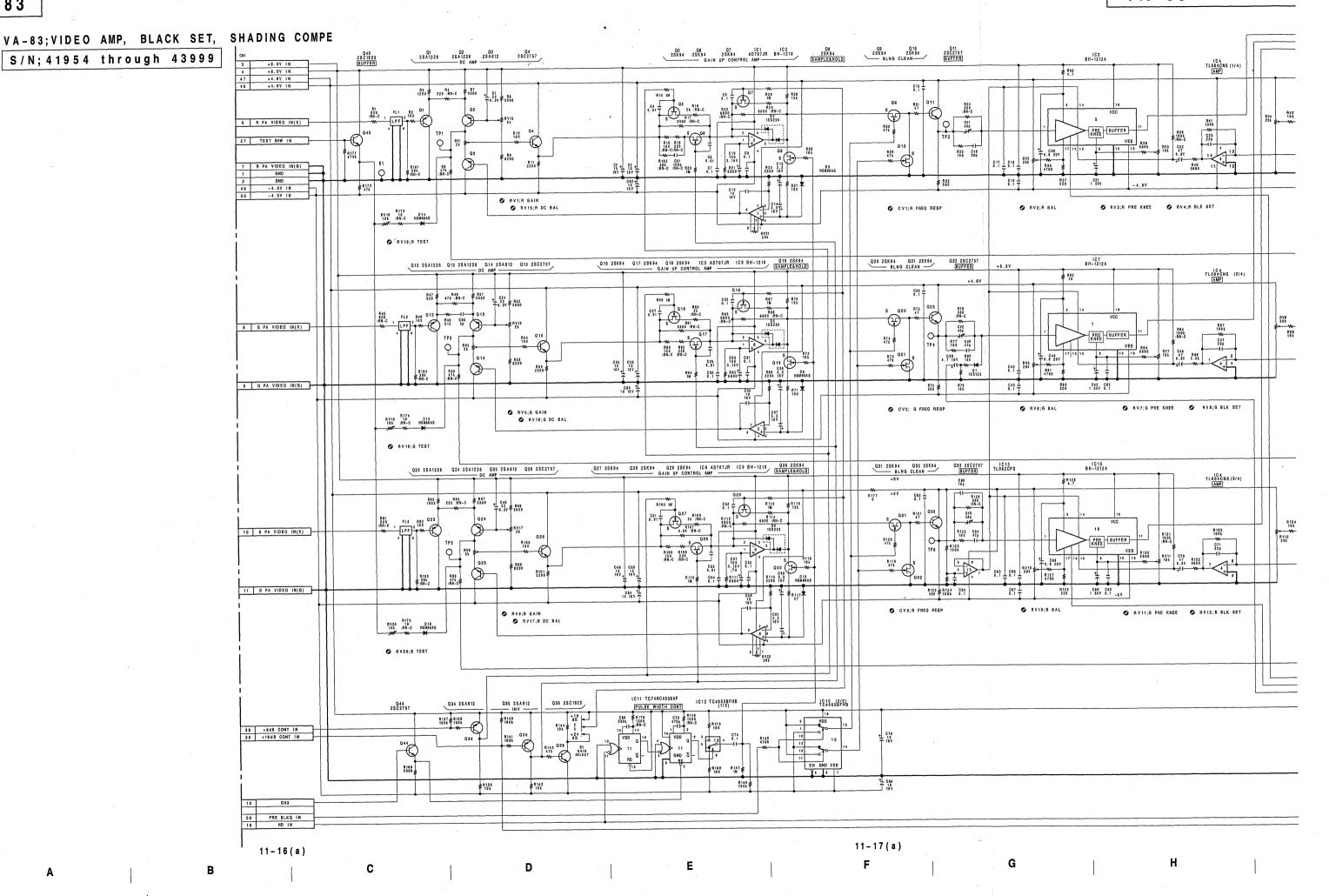
CN-273; CONNECTOR

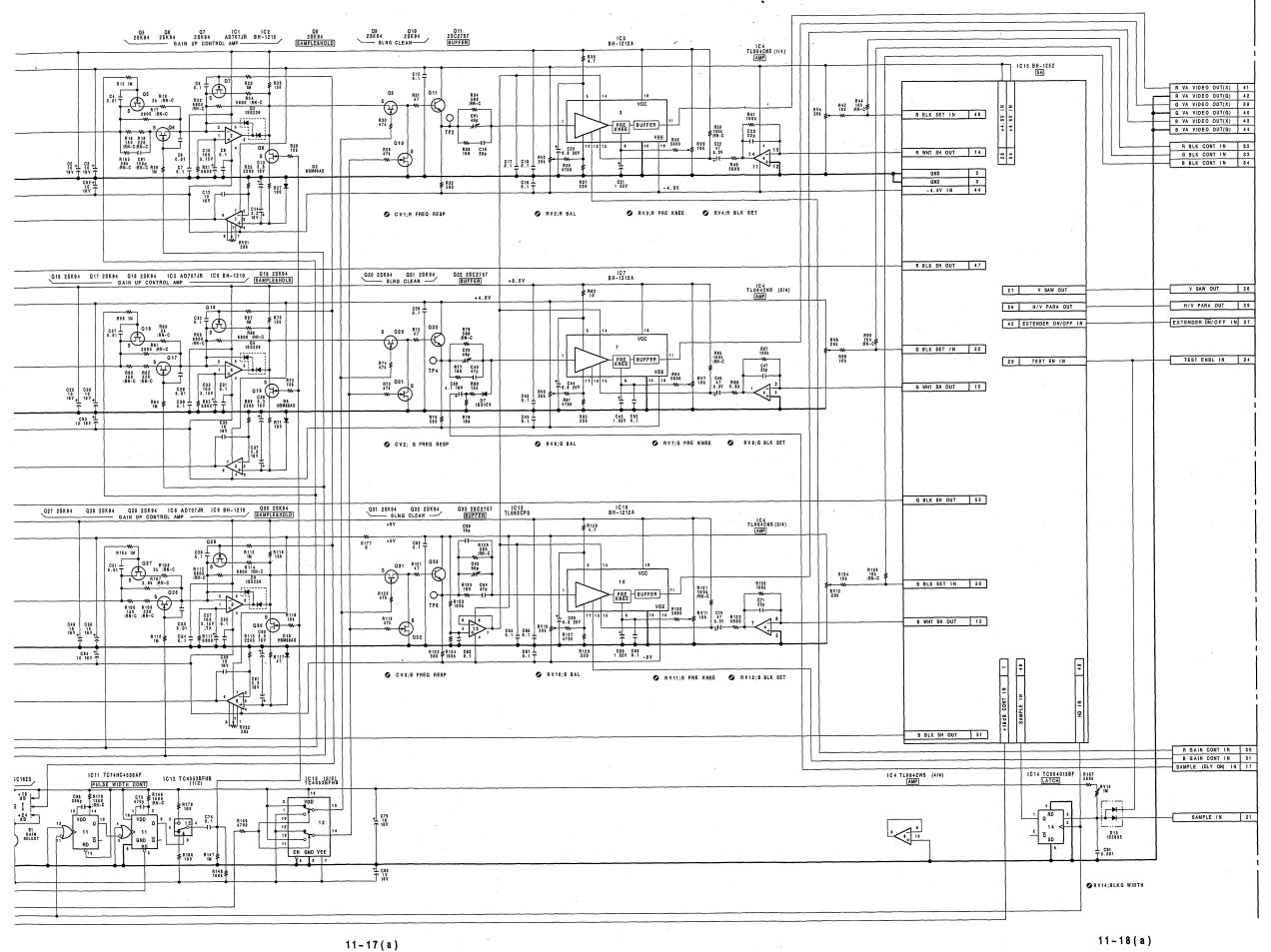


CN-273 BOARD 1-626-739-12 BVW-300AP(EK)

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11-11





VA-83 BOARD

1-629-761-14
BVW-300AP(EK)

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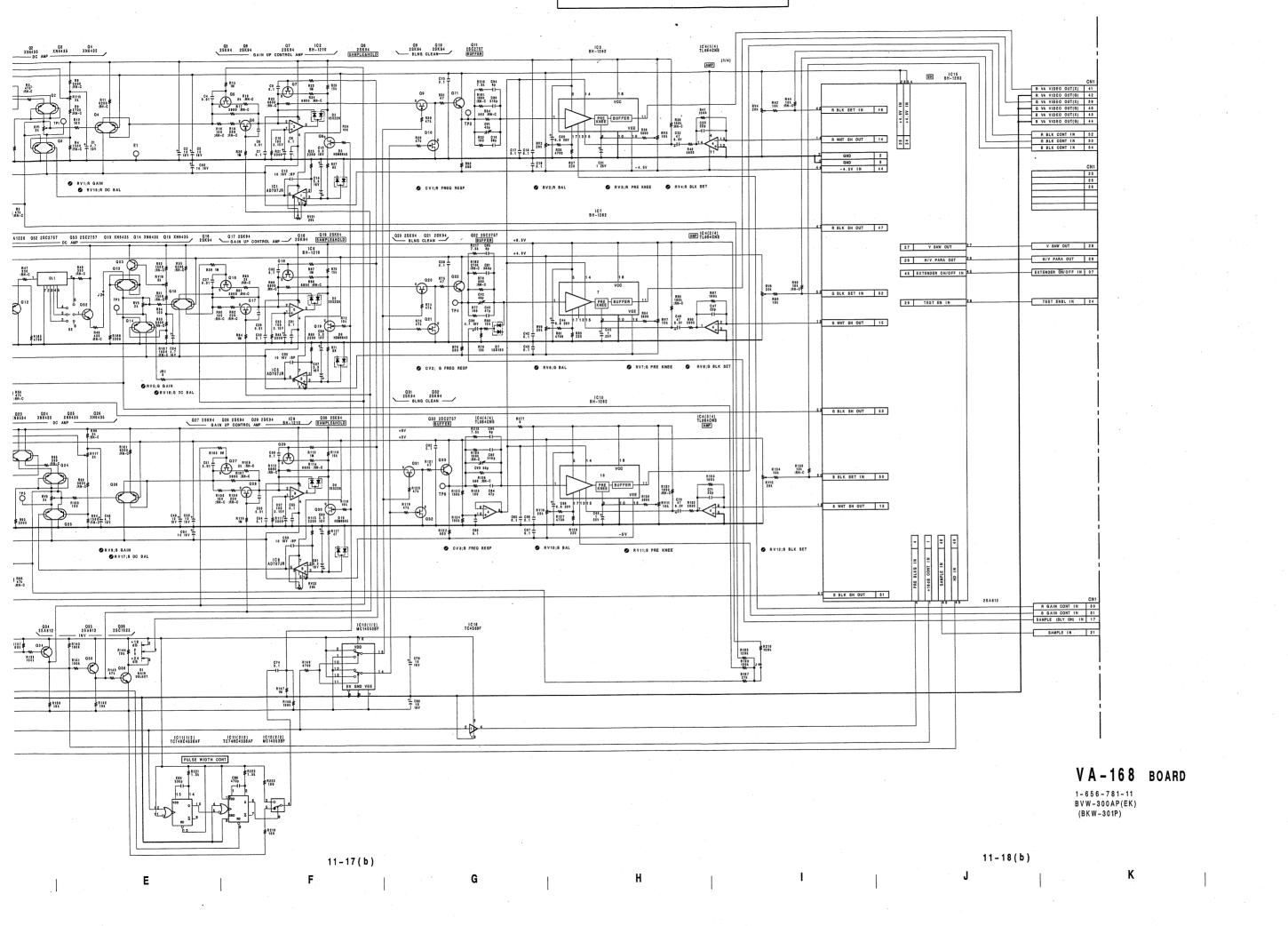
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S/N;44001 and higher

11-16(b)

VA-168; VIDEO AMP, BLACK SET, SHADING COMPE
 Q5
 Q6
 Q7
 IC2
 Q8
 Q9
 Q10
 Q21

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 2 O CV1;R FREQ RESP AMP 104(2/4) TL064CNS C83 +1 10 16V T 876 R79 D7 560 R79 D7 10x 188128 CV2; G FREQ RESP RV7;G PRE KNEE PRV8;G BLK SET 1C4(4/4) TL064CNS R193 1891 C92 :RN-C 516p CV3 50p W R126 560 :RN-C RY20 10 HSM88AS 101 RN-C MI ORV9;B GAIN
ORV17;B DC BAL ₹ 896 47k :RN-C † C80 T 10 16V 20 PRE BLKG IN IC11(1/2) TC74HC4538AF 11-17(b)

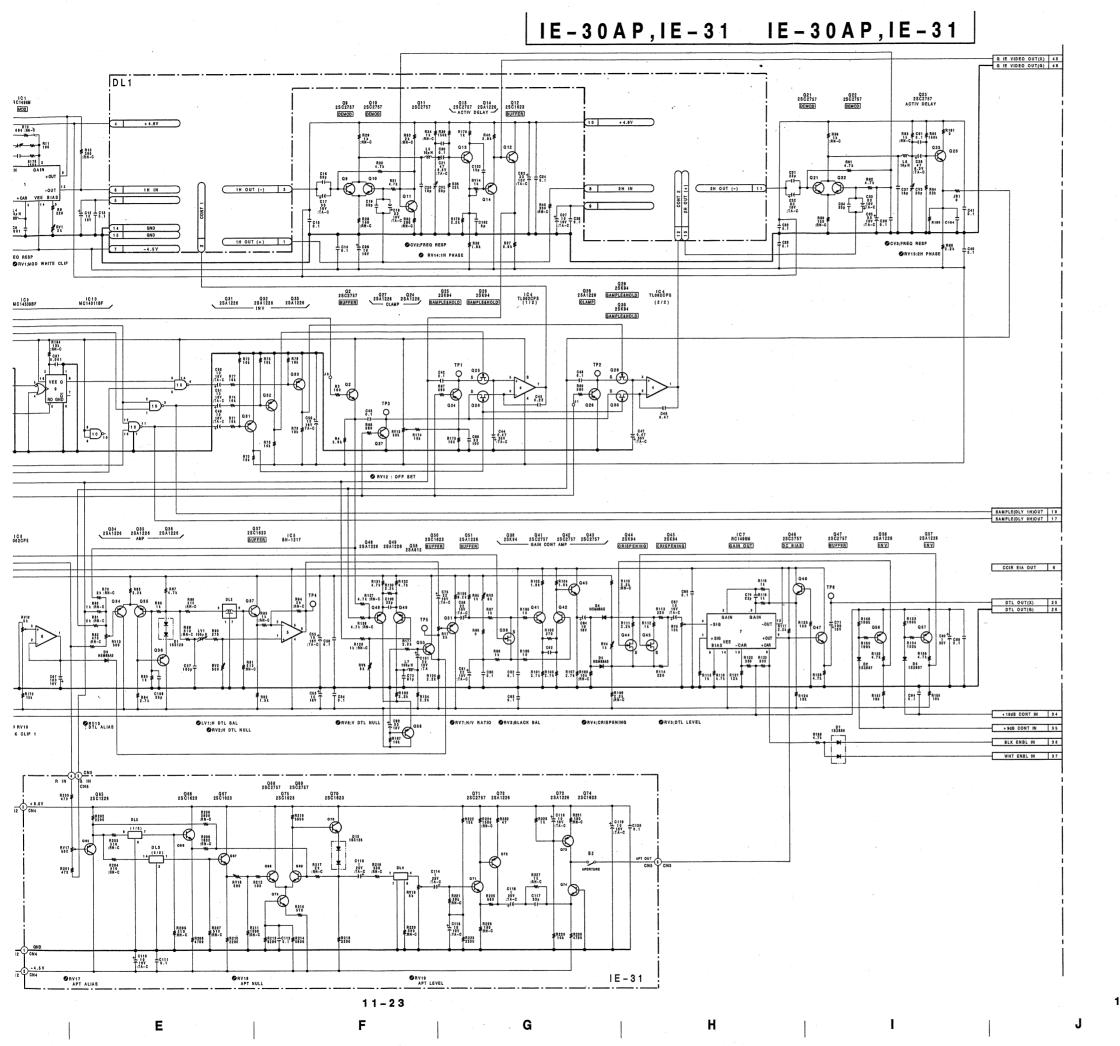


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IE-31

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IE-30 A P BOARD

1-634-946-12

IE-31 BOARD

1-636-346-11

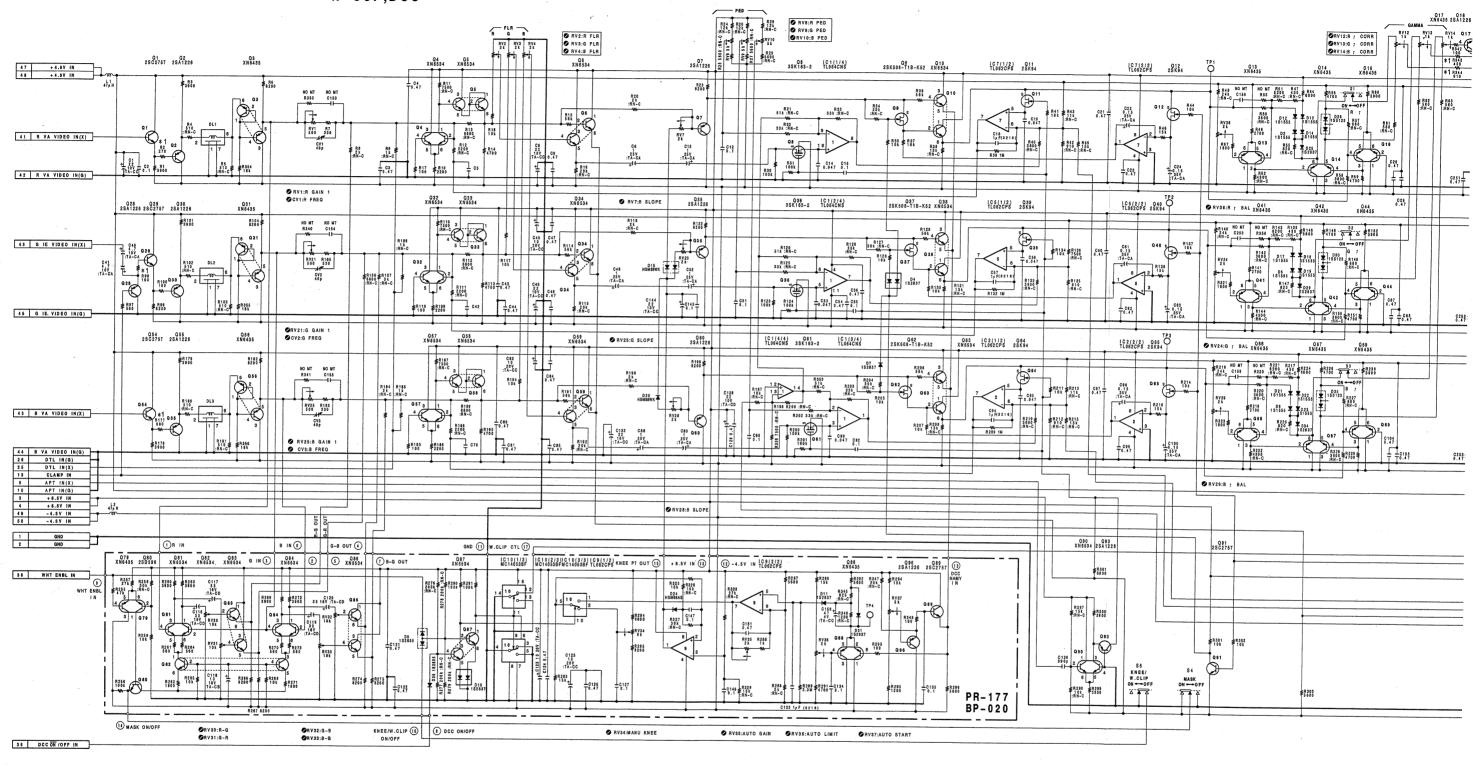
BVW-300AP(EK)

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PR-176,PR-177/BP-020,PR-178/BP-021;GAMMA,MASKING,KNEE,SLOPE, W CUP,DCC



11-28

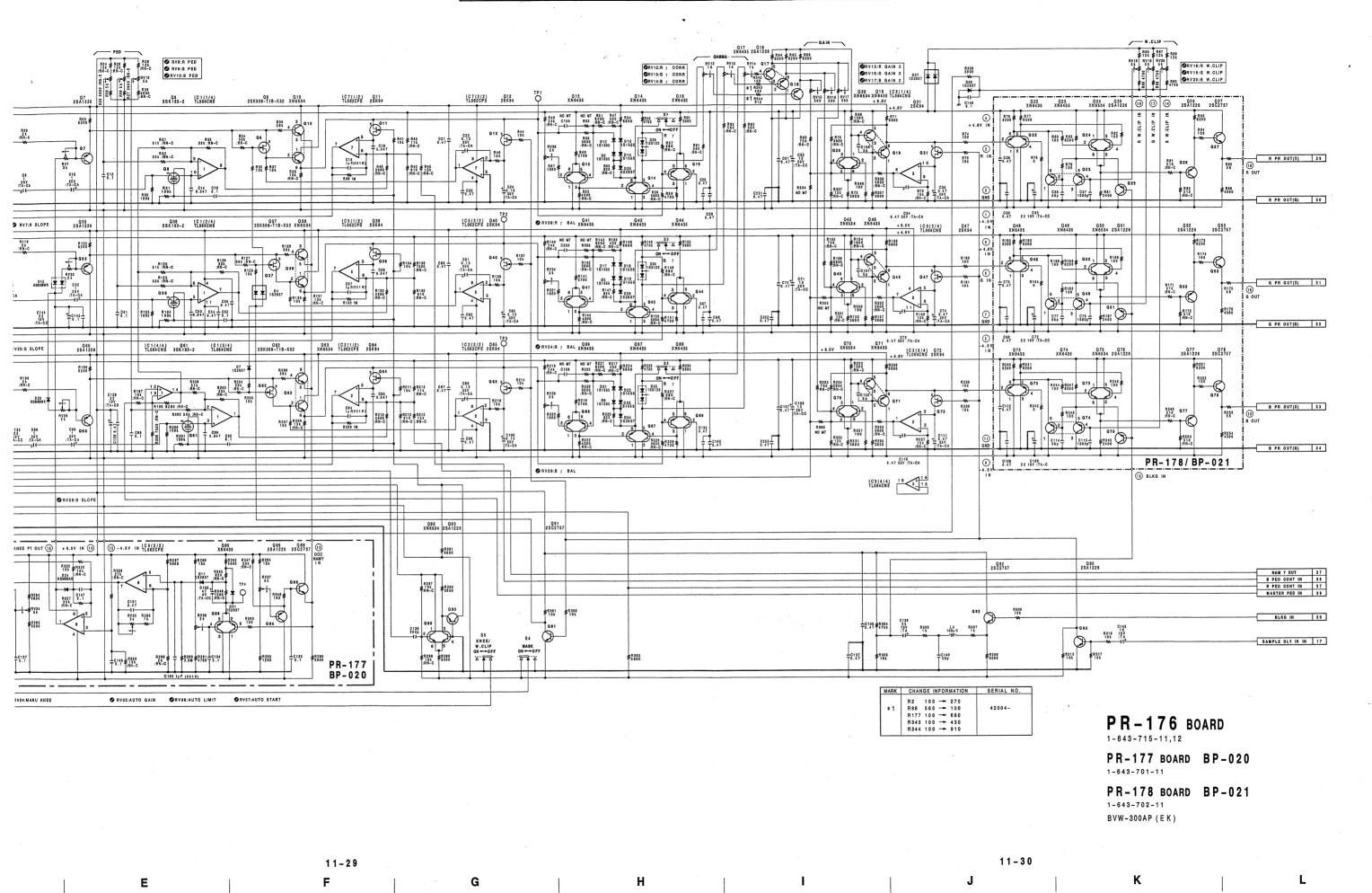
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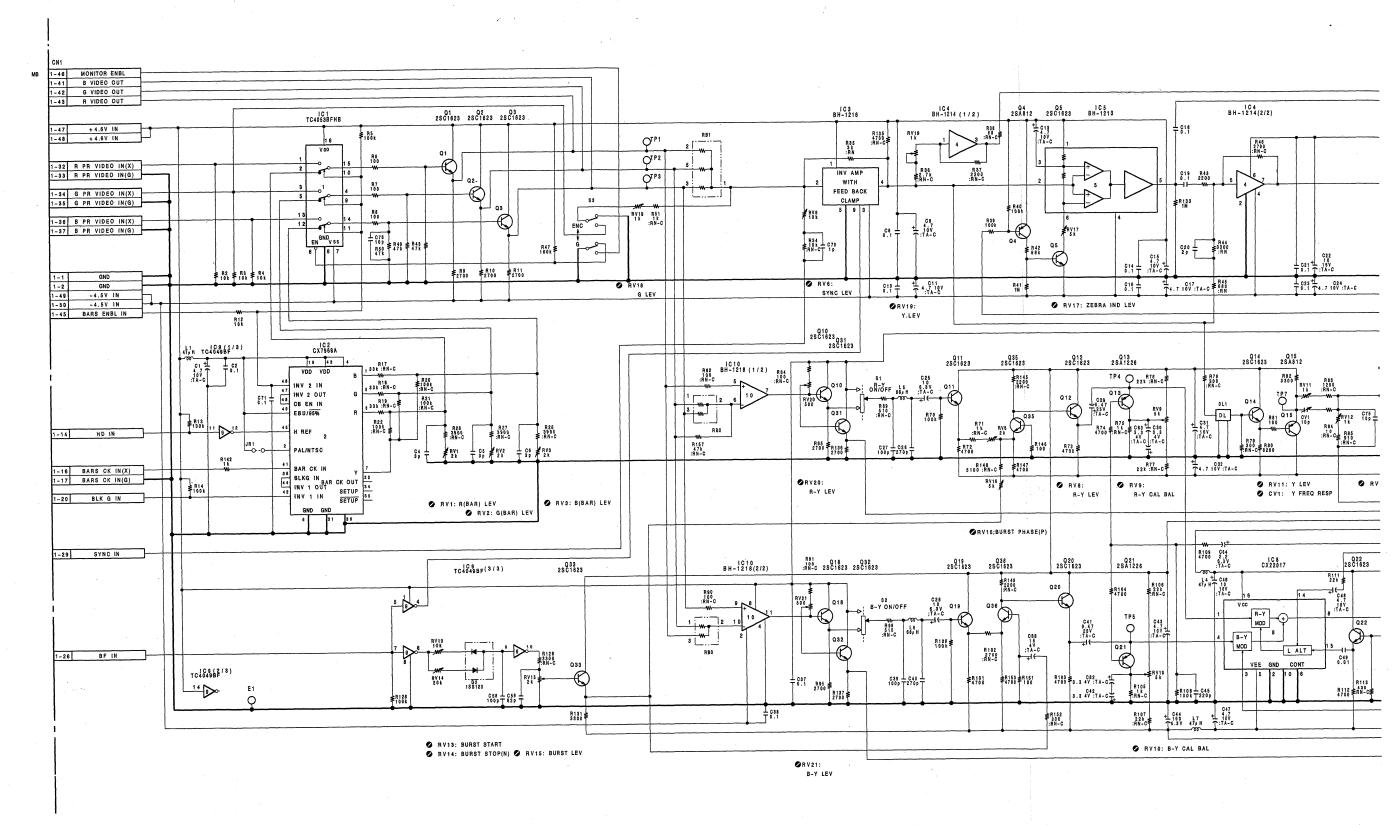
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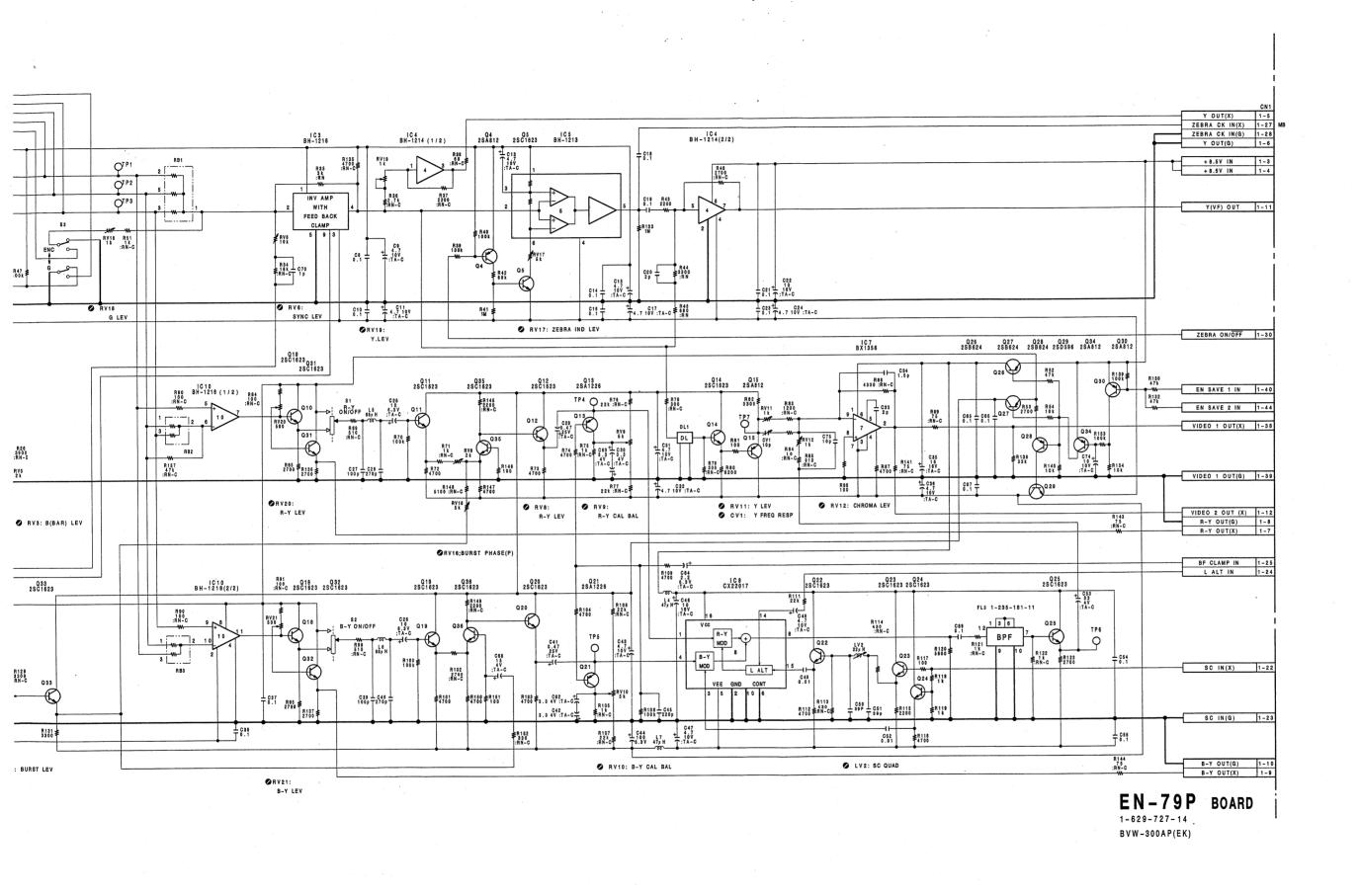
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EN-79P;Y/R-Y/B-Y SIGNAL GEN,ENCODER,CB GEN



11-34
B C D E F G H

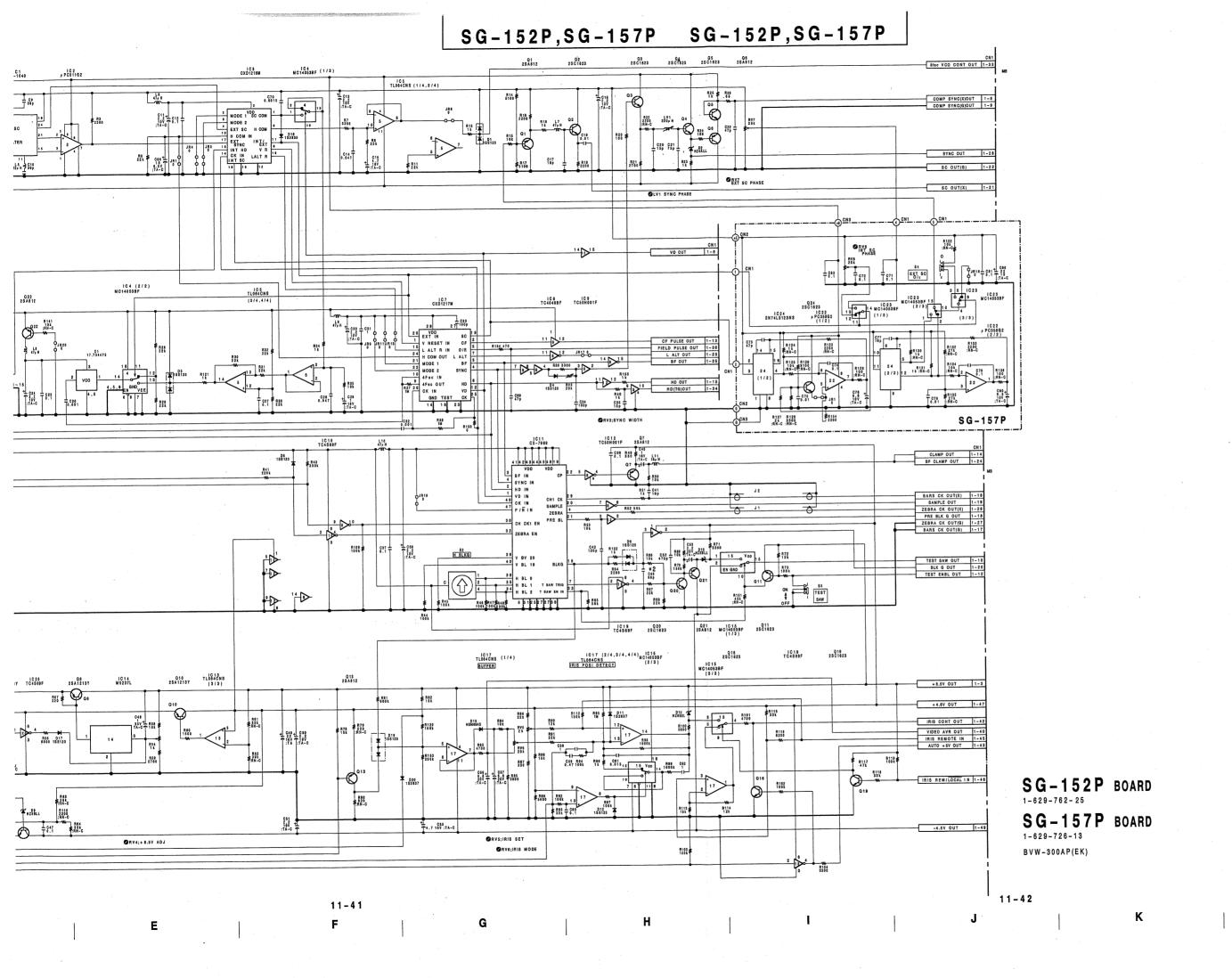


11-35 F G H I J K L

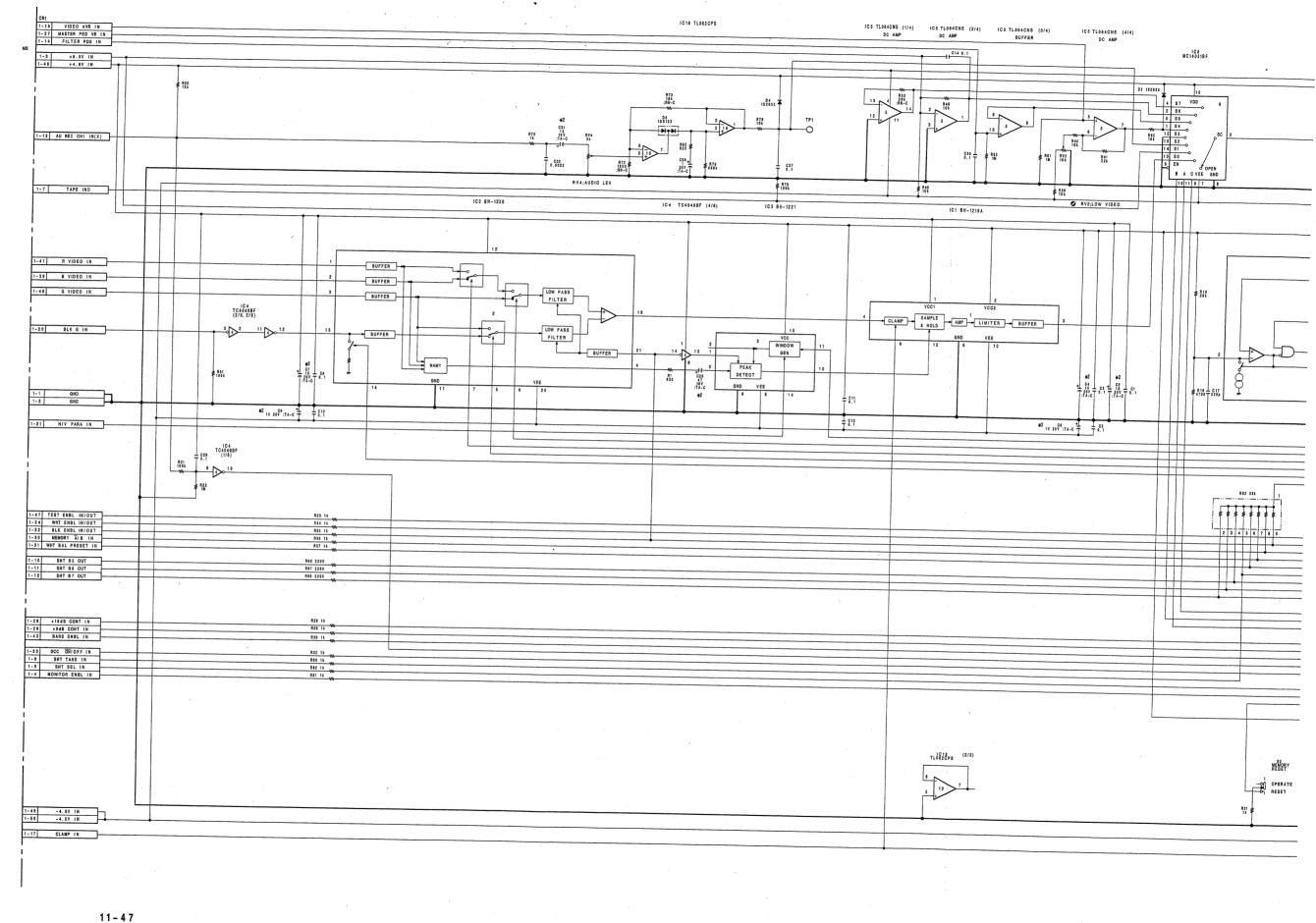
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AT-49A/49C; AUTO W/B, CHARA GEN, SYS-CON



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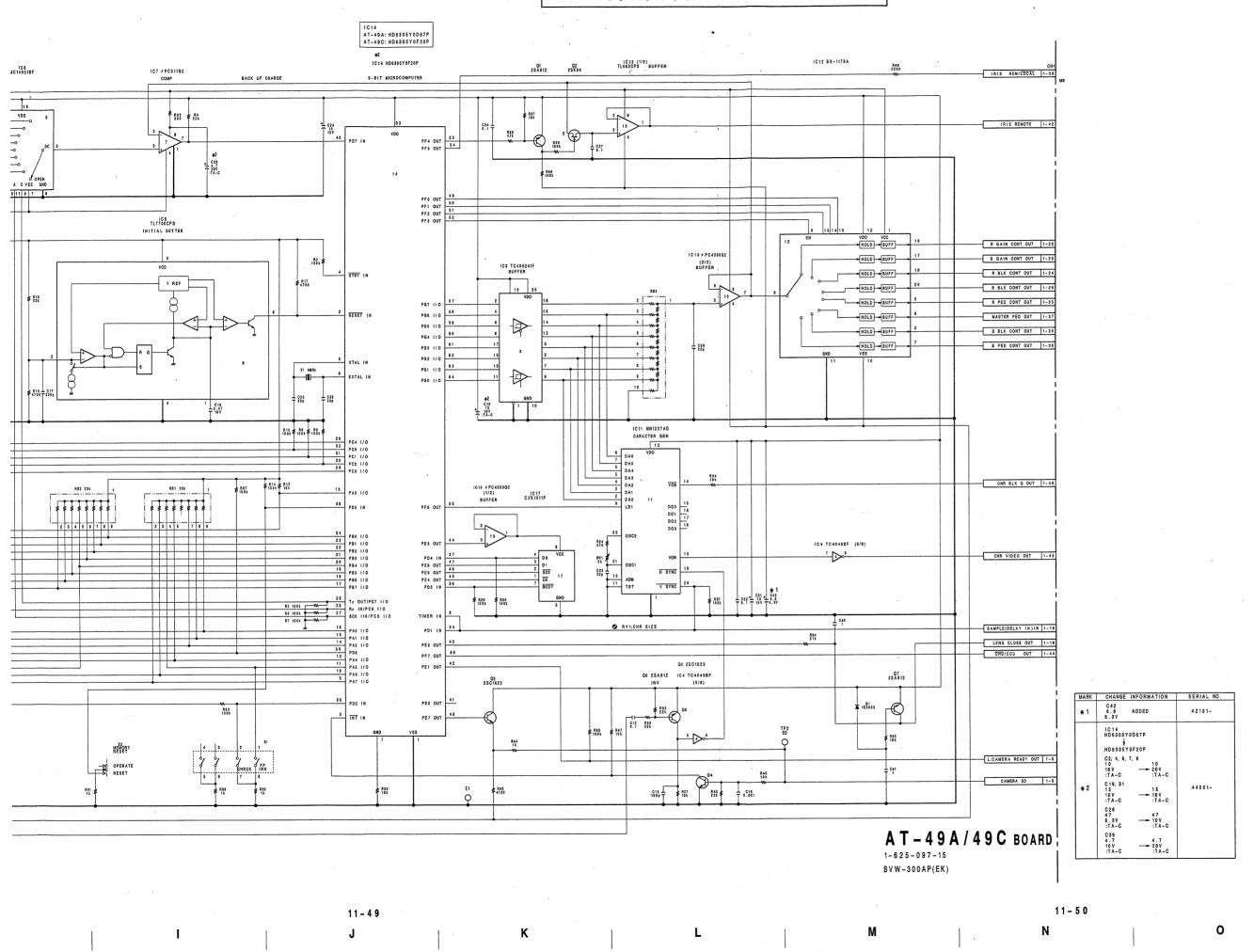
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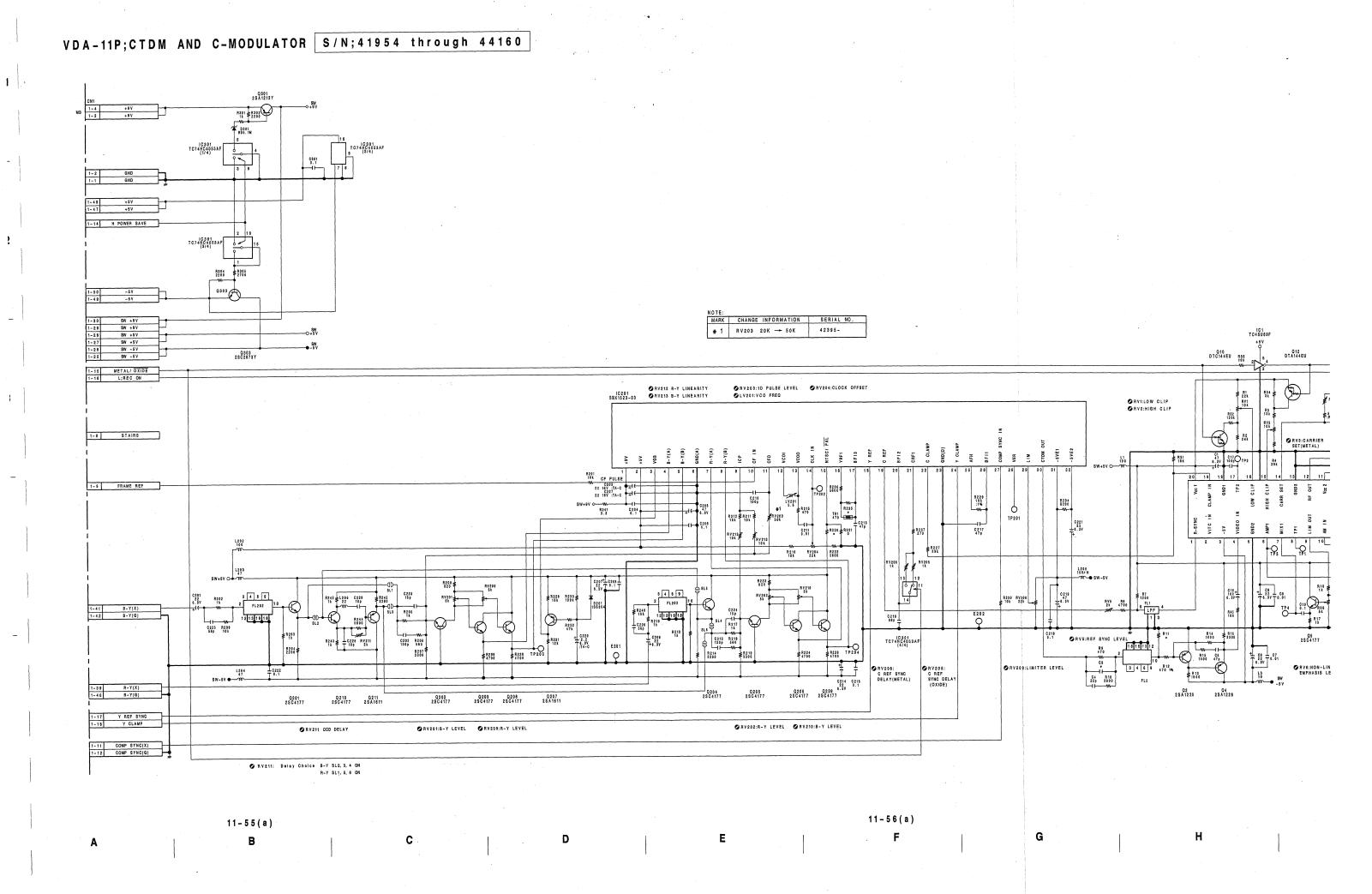
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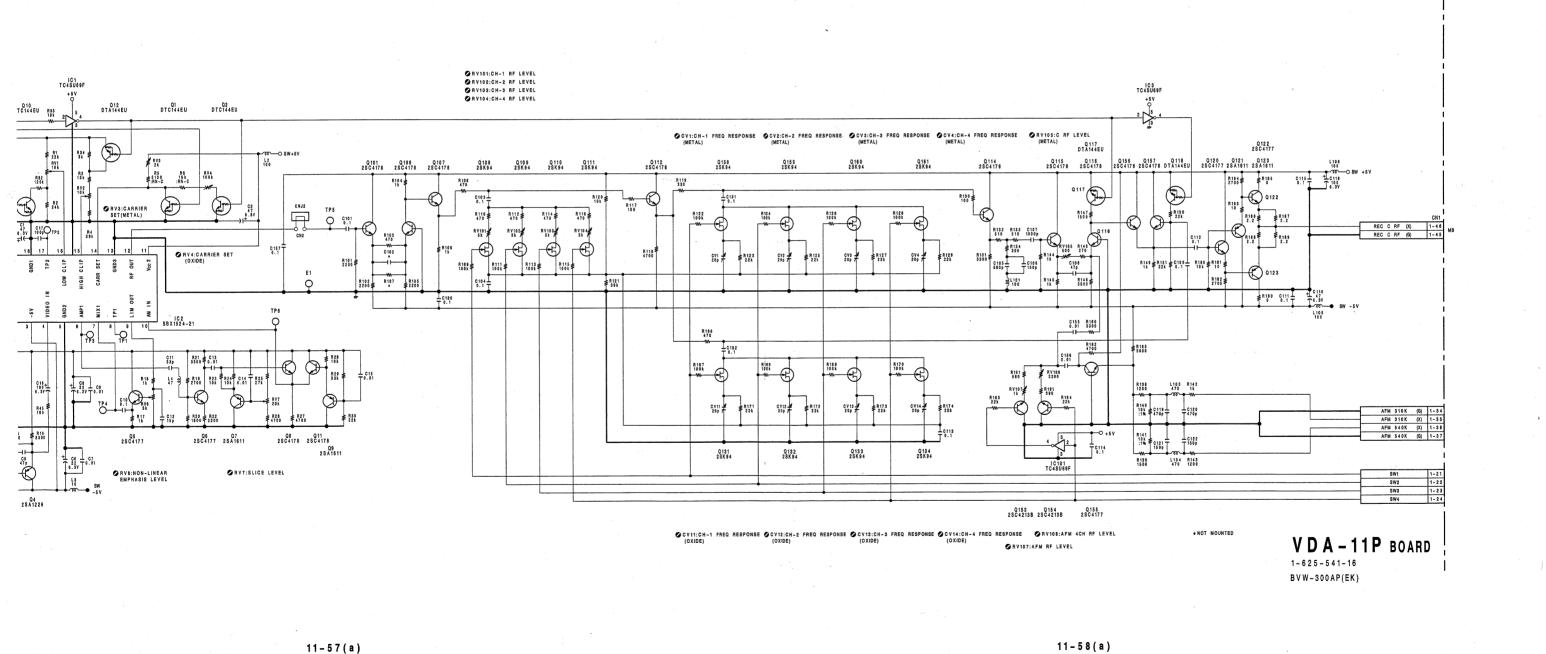
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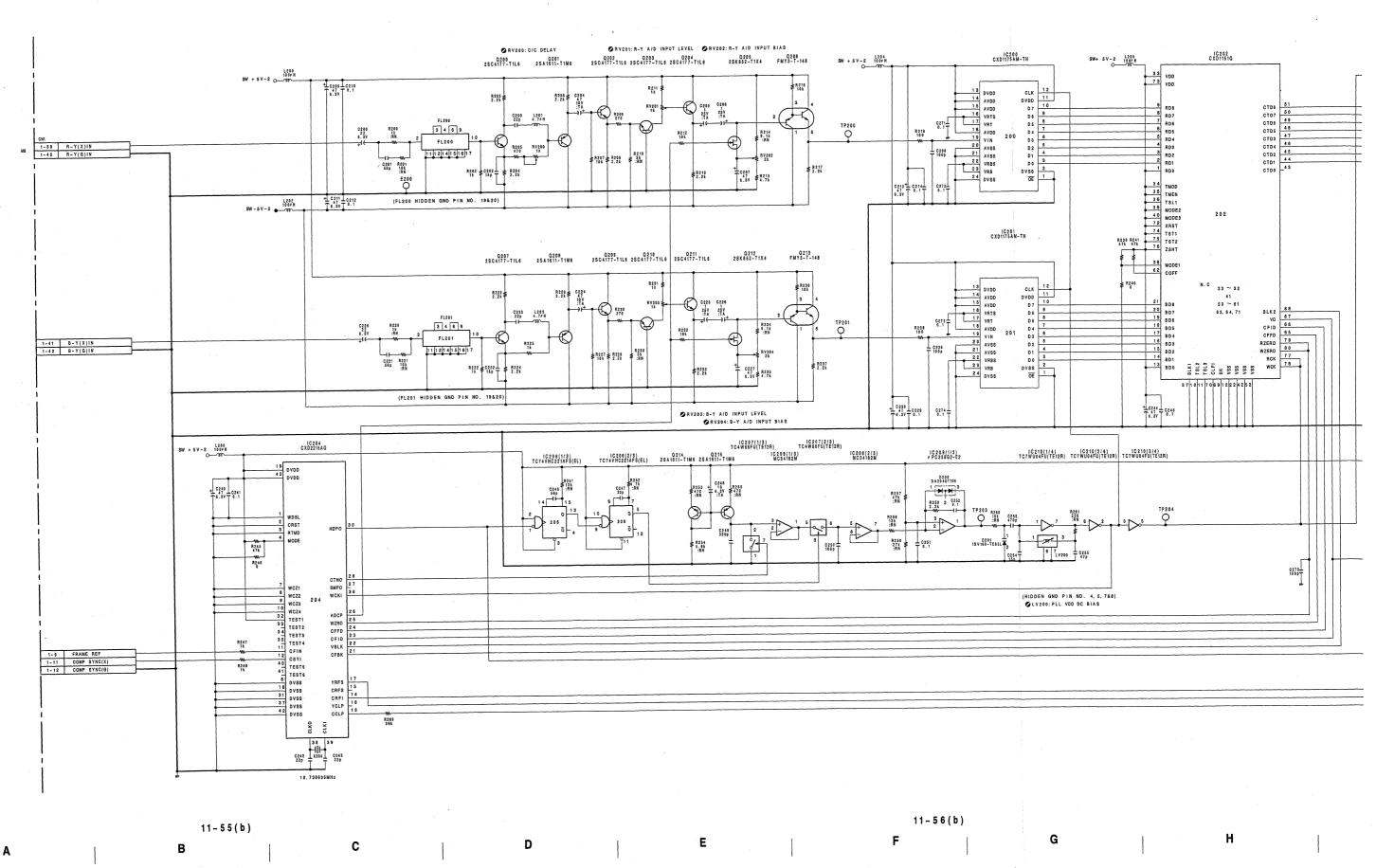
AT-49A/49C AT-49A/49C







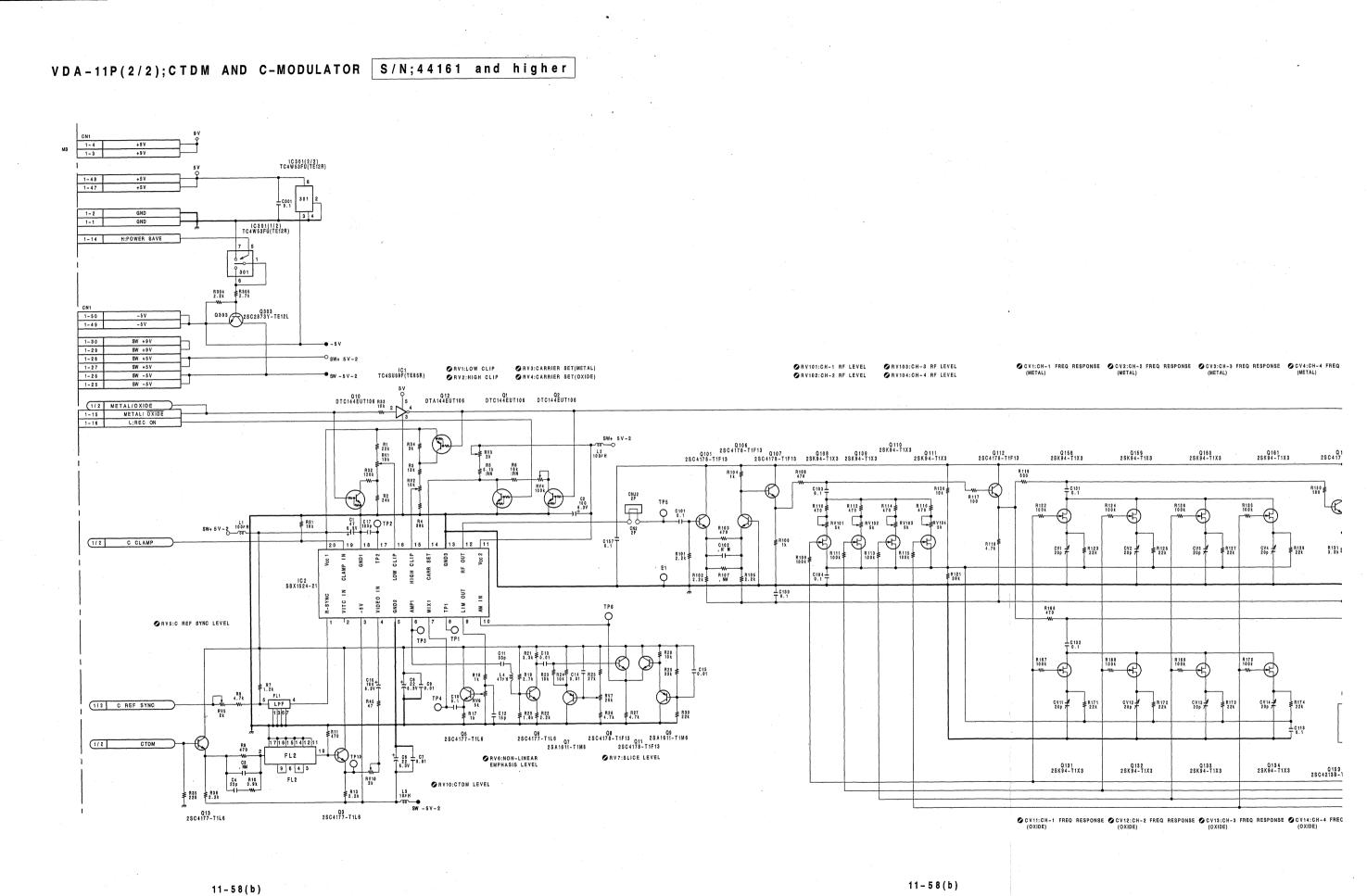
VDA-11P(1/2);CTDM AND C-MODULATOR S/N;44161 and higher

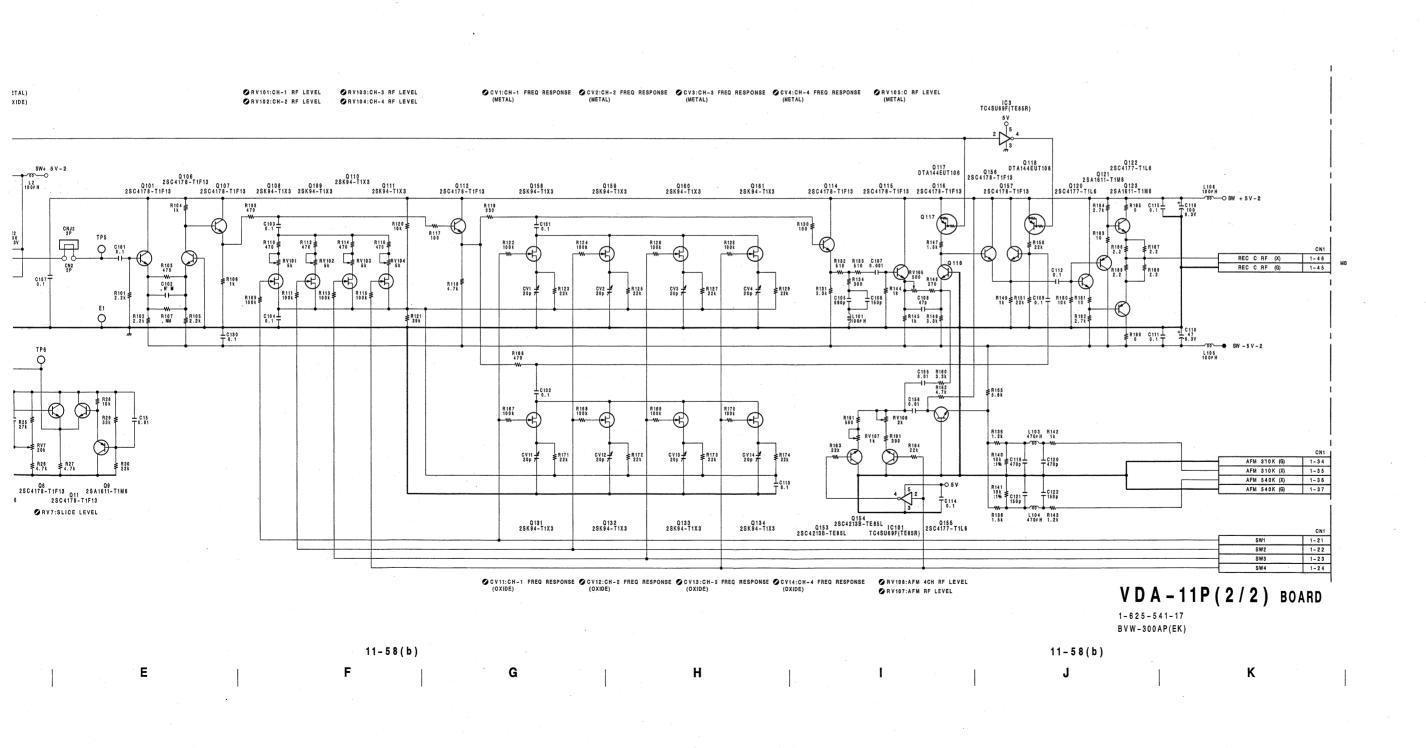


ORV201: R-Y A/D INPUT LEVEL ORV202: R-Y A/D INPUT BIAS IC200 CXD1175AM-TH IC202 CXD1151Q Q205 Q206 25K852-T1X4 FMY3-T-148 Q202 Q203 Q204 28C4177-T1L6 28C4177-T1L6 28C4177-T1L6 CTD8 51 50 CTD7 49 48 CTD5 CTD3 CTD4 CTD2 CTD1 CTD1 CTD0 48 AVDD DVDD DVDD IC201 CXD1175AM-TH 0209 Q210 Q211 T1M6 2SC4177-T1L6 2SC4177-T1L6 2SC4177-T1L6 Q212 2SK852-T1X4 Q 213 FM Y 3 - T - 148 TP201 \Diamond IC206(3/3) IC207(3/3) TC74VHC221AFS(EL) TC4W66FU(TE12R) IC208(3/3) MC34182M IC209(3/3) IC210(4/4) FPC358G2-E2 TC7WU04FU(TE12R) FR227 ≠ R228 10k ≠ 2.2k BLK1 TSL2 TSL3 CLP1 SH VSS VSS RV203: B-Y A/D INPUT LEVEL

RV204: B-Y A/D INPUT BIAS 1C207(2/3) TC4W86FU(TE12R) 1C211(1/3) TC74VHC221AFS(EL) IC211(2/3) TC74VHC221AFS(EL) IC208(2/3) TC74VHC221AFS(EL) 2SA1811-T1M6 2SA1811-T1M6 IC 209(1/3) # PC358G2-E2 (HIDDEN GND PIN NO. 4, 5, 7&8)

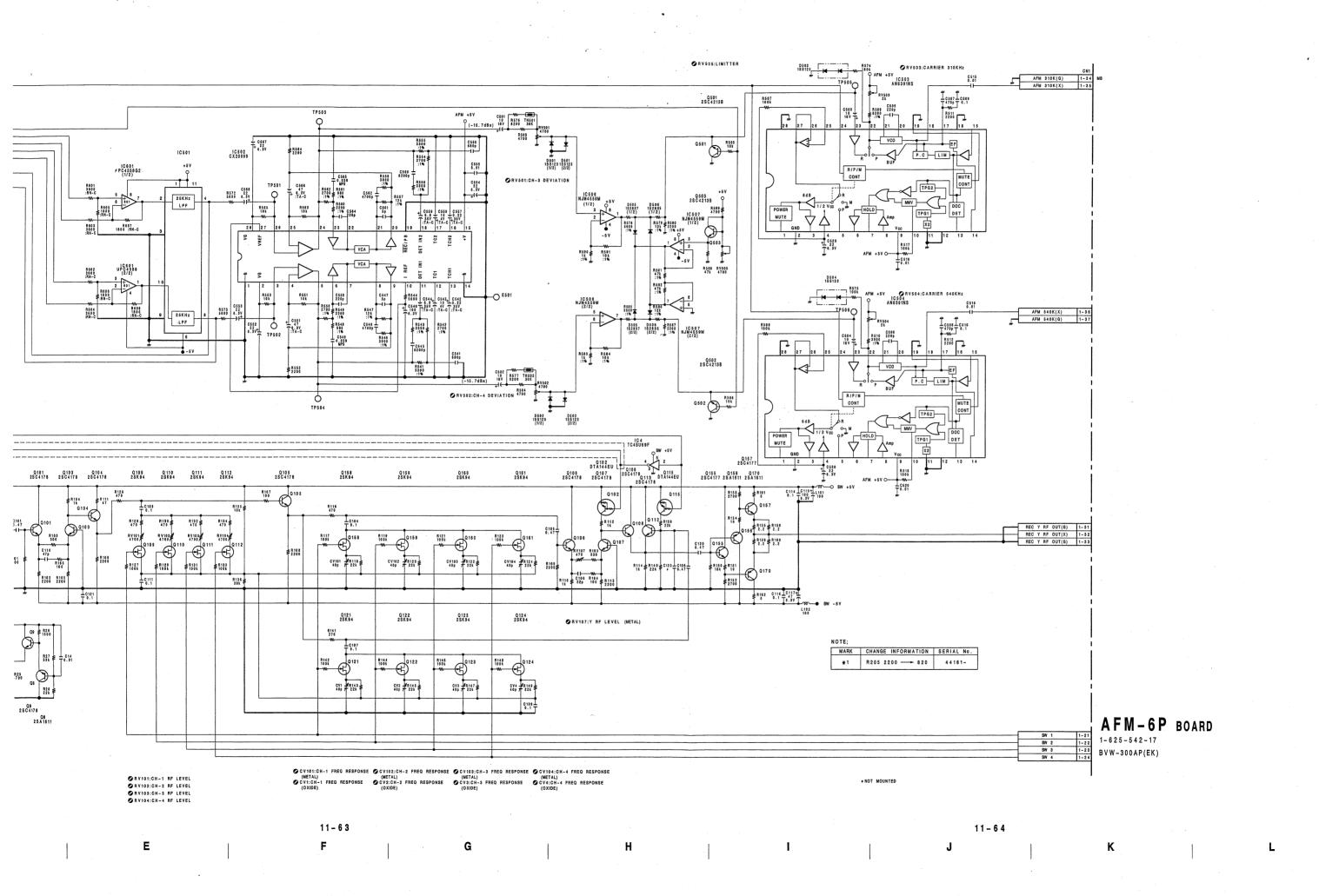
OLY200: PLL VCO DC BIAS IC 213(1/2)
TC4W53FU(TE12R) TC74VHC221AFS(EL) TC74VHC221AFS(EL) ORV208: Y REF SYNC POSITION
ORV208: C REF SYNC POSITION(OXIDE) ORV207:Y REF SYNC WIDTH
ORV210:C REF SYNC WIDTH VDA-11P(1/2) BOARD 1-625-541-17 BVW-300AP(EK) 11-56(b) 11-57(b)



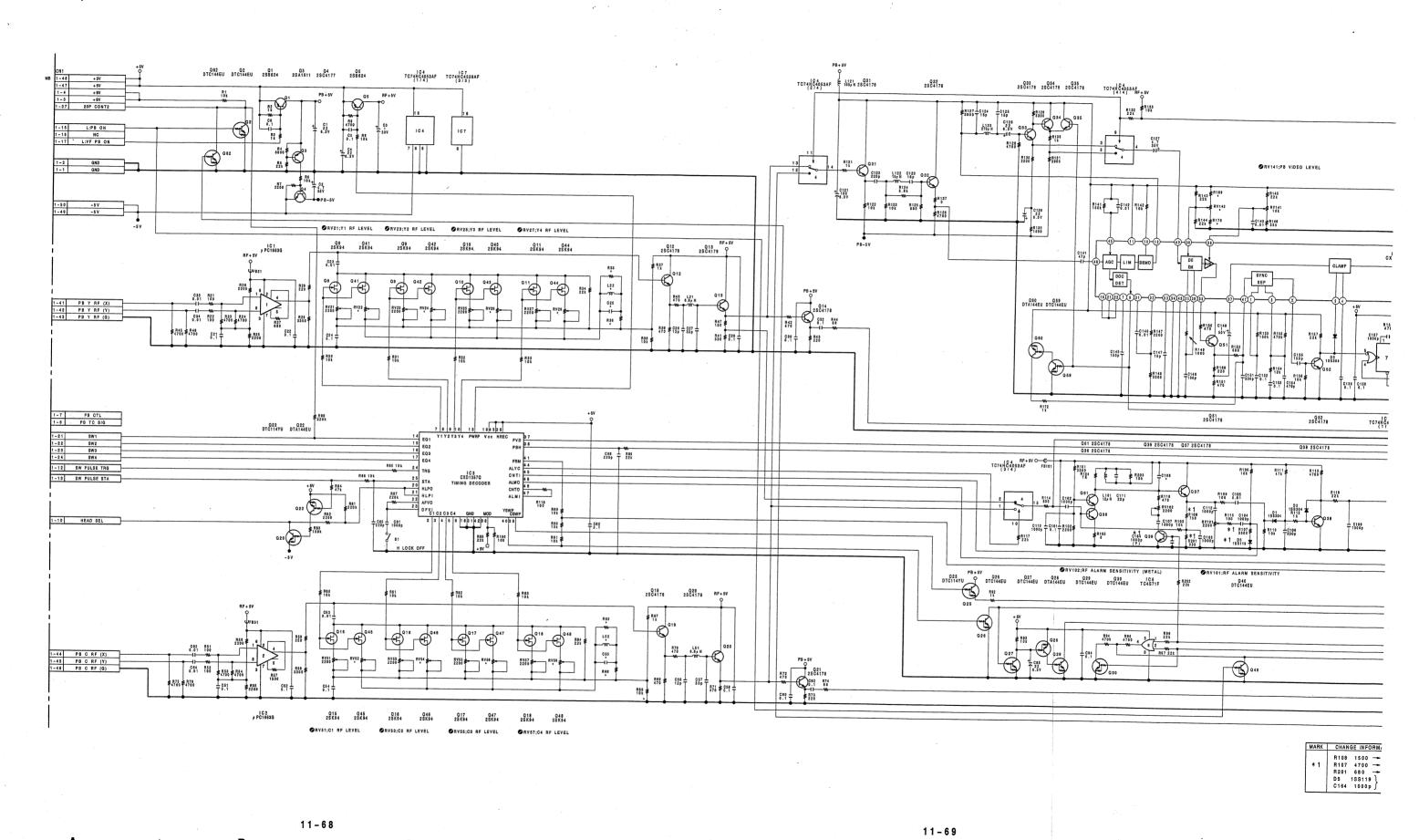


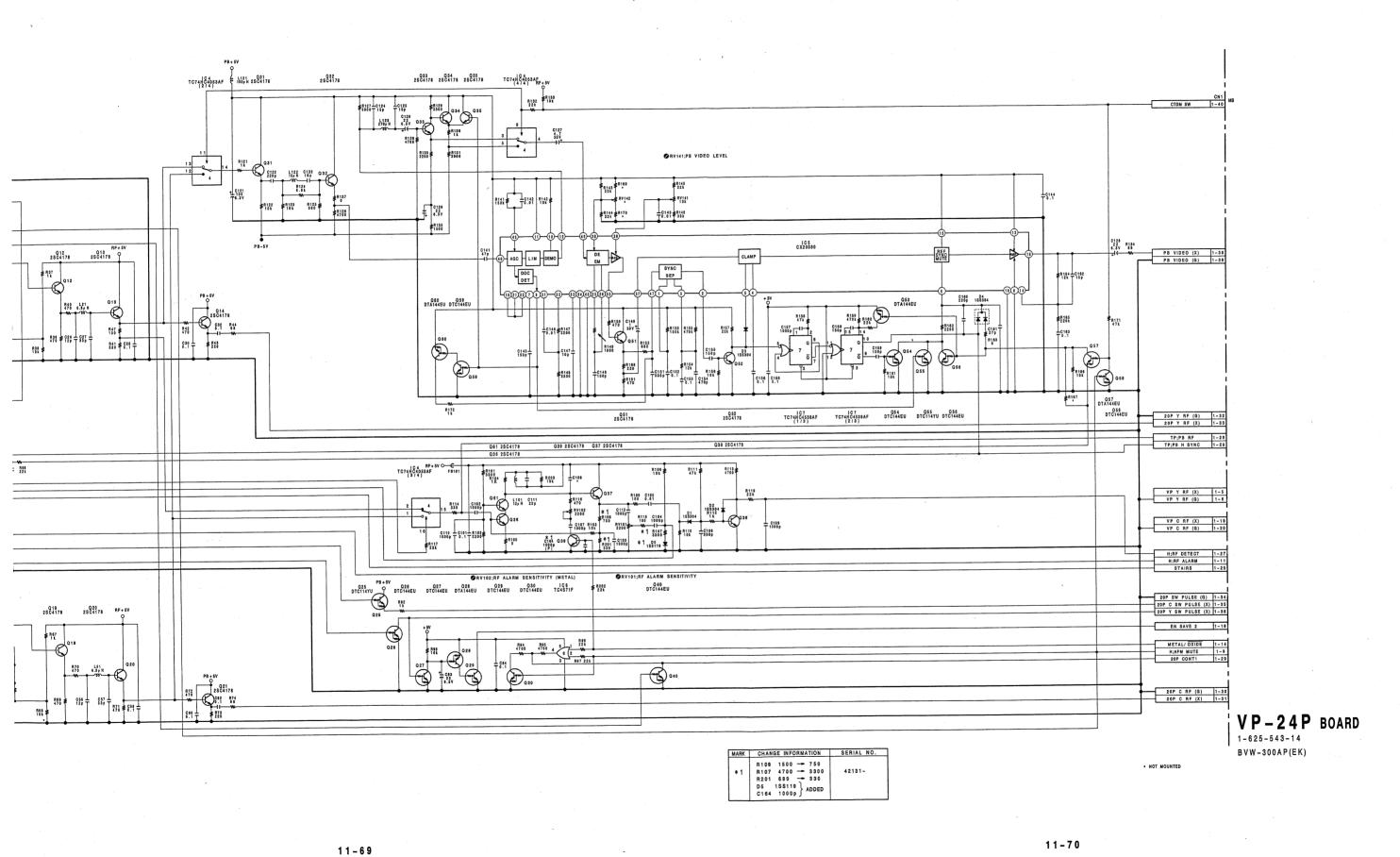
AFM-6P;Y-MODULATOR, AFM ARV505:LIMITTER Q 501 2 S C 4 2 13 B AFM +5V C501 W R576 TH501 8200 30K C558 680p Q501 R505 IC502 CX20099 R554 2700 :1₩ ORV501:CH-3 DEVIATION # PC358G2 Q201 (2/2) Q201 R565 10k IC2 TC4SU69F D505 D506 R587 IC507 R5883 12835 2200 (2/2) (2/2) :1% NJM4559M (2/2) R583 R584 Q502 28C4213B ORVS: WHITE CLIP ORV502:CH-4 DEVIATION 4700 Ó ORY3: ORY4: DARK CLIP DARK CLIP (OXIDE) RV7:CARRIER SET (OXIDE 0102 DTA144EU 0108 0107 25C4178 25C4178 25C4178 25C4178 25C4178 Q161 25K94 Q155 Q156 28C4177 2SA1611 2 Q109 Q110 Q111 Q112 25K94 25K94 25K94 25K94 Q101 Q103 Q104 2SC4178 2SC4178 2SC4178 1-7 STAIRS R29 39k TP4 C101 RV101 ¥ RV 102 7002 7007 0 110 8129 R101 2200 CV104 #R124 CV102 #R120 # R136 ¥

Q121 25K94



VP-24P; VIDEO PB

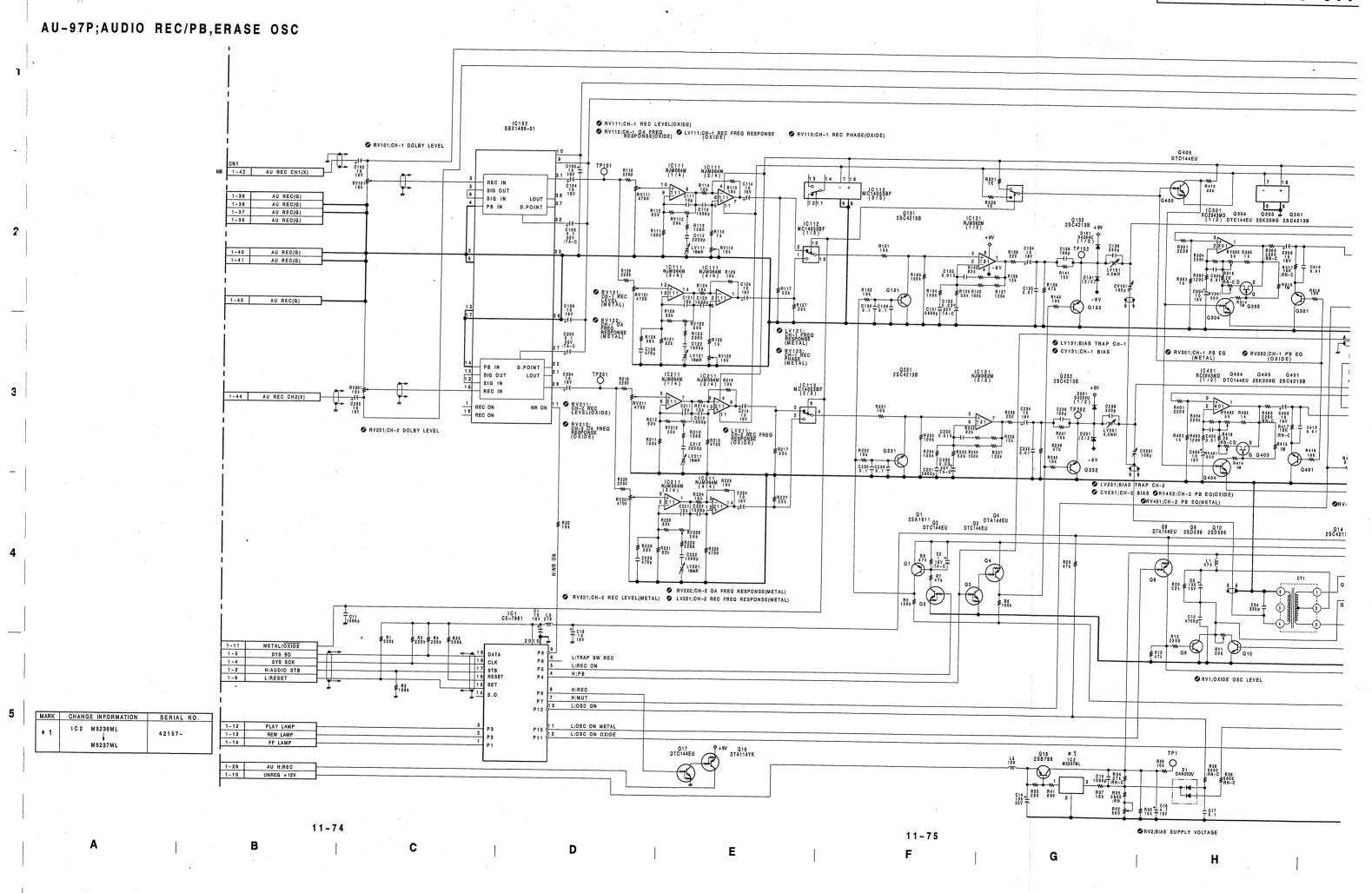


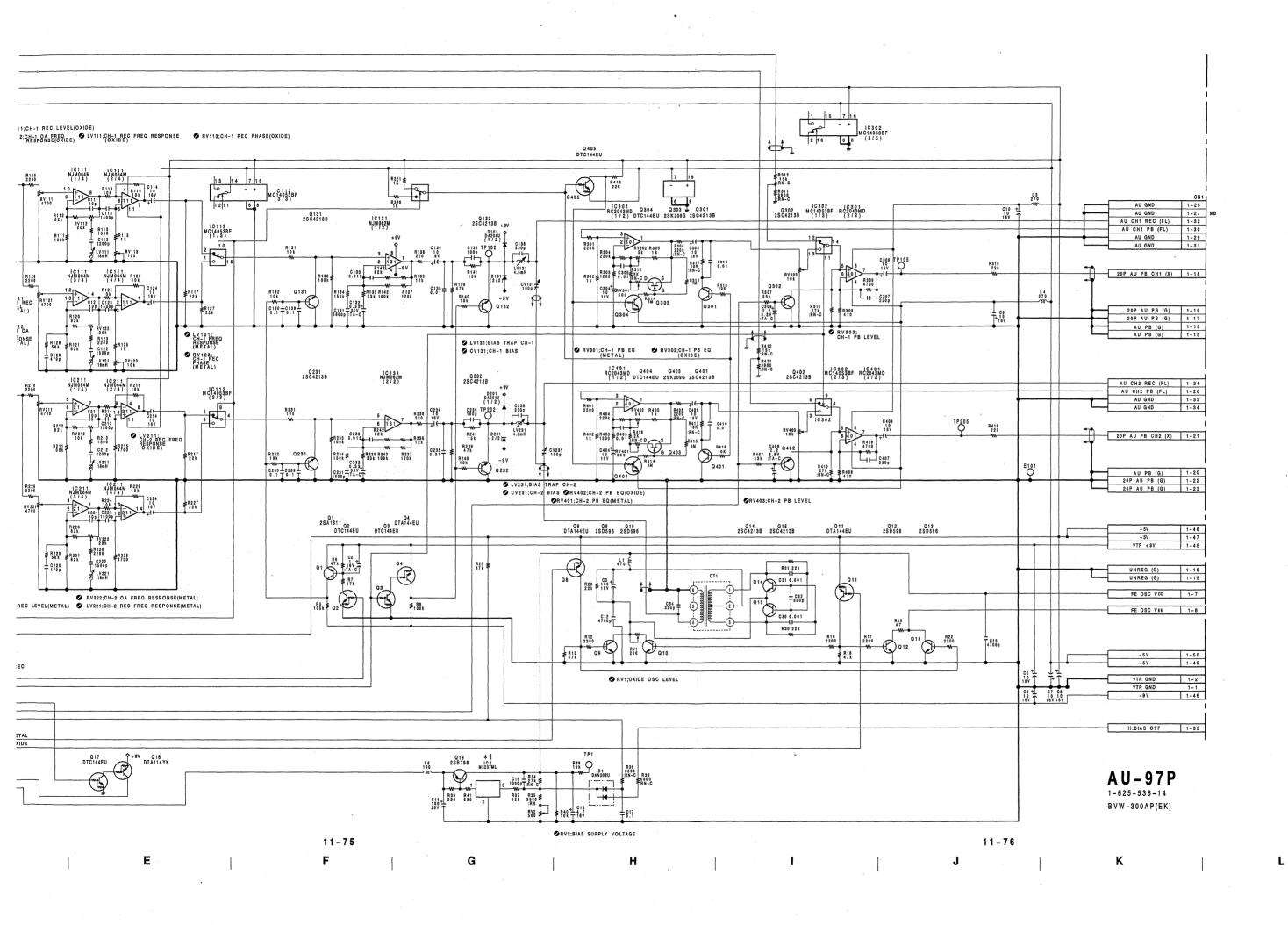


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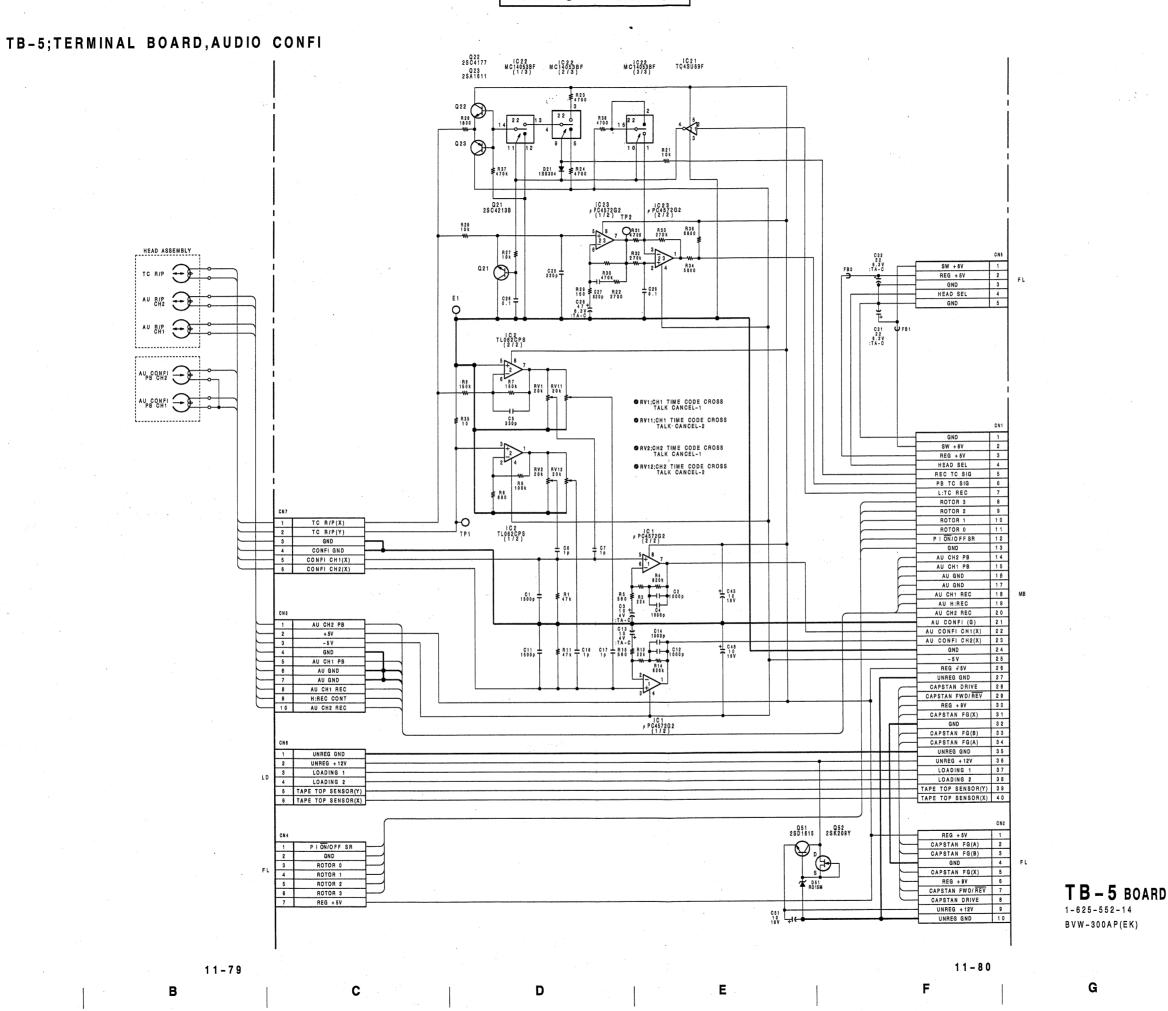
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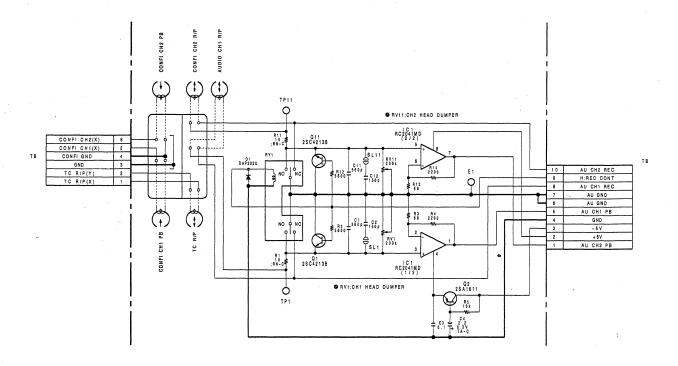
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FL-55P; AUDIO HEAD AMP, RELAY BOARD



FL-55P BOARD

1-625-893-12 BVW-300AP(EK)

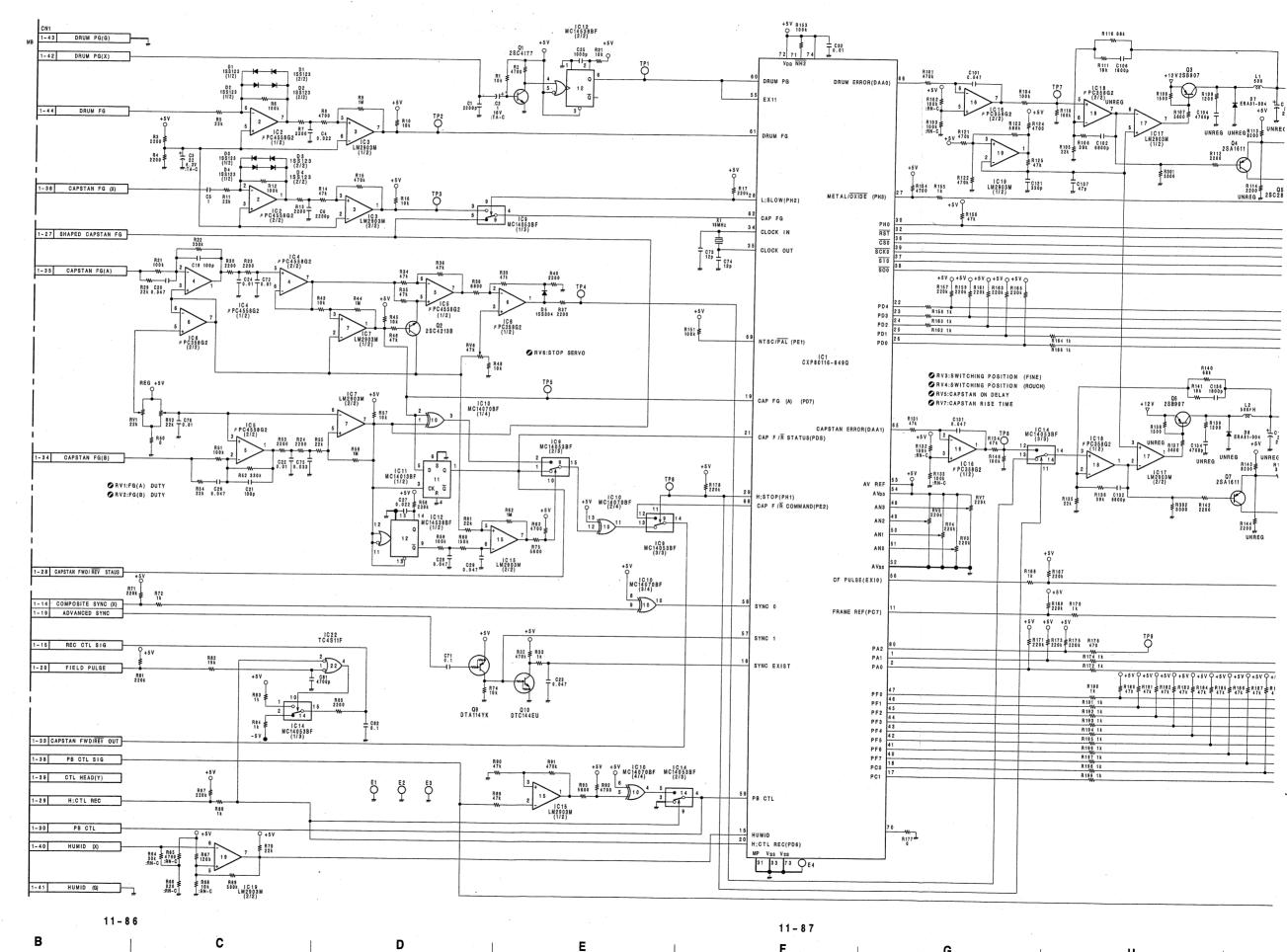
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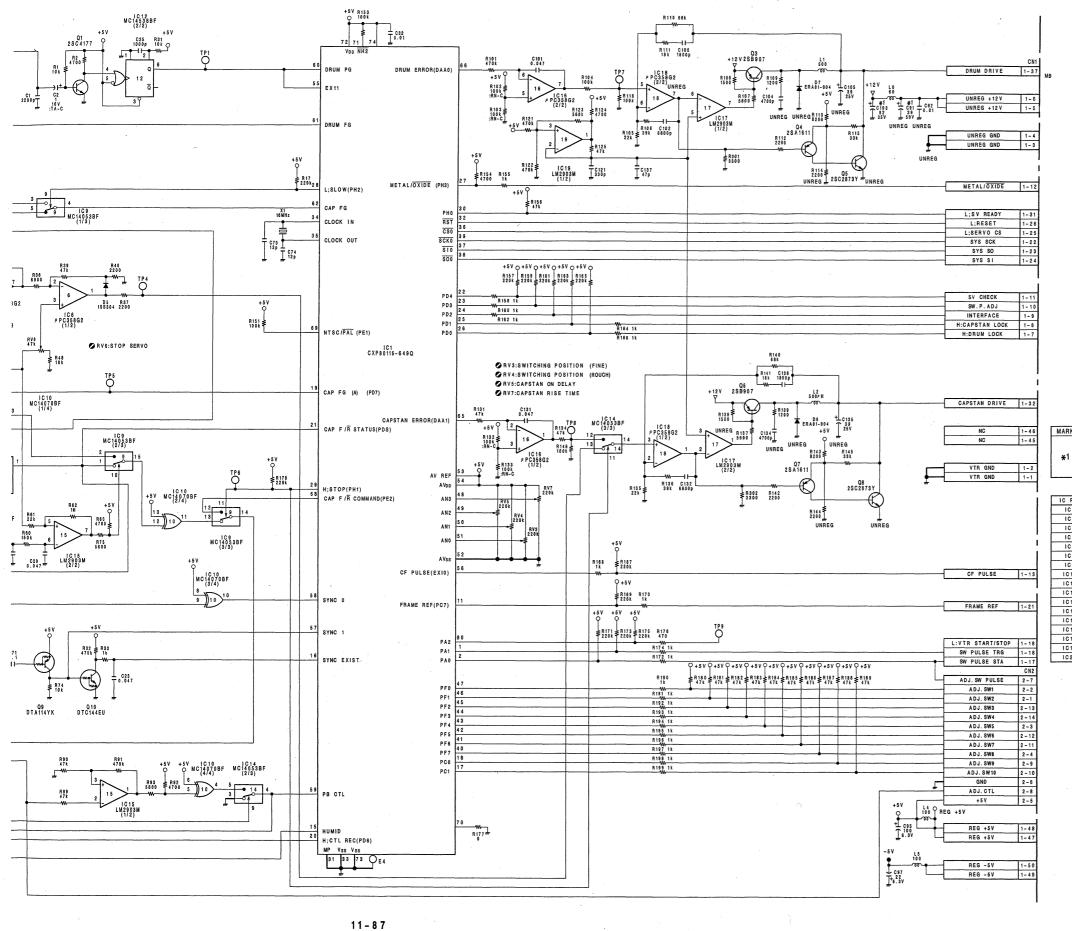
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SV-97AP;DRUM/CAPSTAN SERVO





MARK	CHANGE INFORMATION	SERIAL NO.
	C91 27 39 50V	
* 1	C103 82 82 35V	44001-

IC Ref	Parts No.	Vcc	VEE	Vss	PASS CON Ref
1C2	# PC4558G2	+5V/8P	GND/4P		C33 0.01
IC3	LM2903M	+5V/8P	GND/4P		C34 0.01
104	# PC4558G2	+5 V / 8 P	GND/4P		C35 0.01
1C5	# PC4558G2	+5 V / 8 P	GND/4P		C36 0.01
106	FPC358G2	+5.V/8P	GND/4P		C37 0.01
107	LM2903M	+5V/8P	GND/4P		C38 0.01
109	MC14053BF	+5V/16P	GND/8P		C40 0.01
1010	MC14070BF	+5V/14P	GND/7P		C41 0.01
1011	MC14013BF	+5 V / 14 P	GND/7P		C42 0.01
1012	MC14538BF	+5V/16P	GND/8P		C43 0.01
IC14	MC14053BF	+5 V / 16 P	GND/8P	-5V/7P	C45 0.01 C46 0.01
IC15	LM2903M	+5 V / 8 P		-5V/4P	C47 0.01 C48 0.01
1C16	# PC358G2	+5 V / 8 P	GND/4P		C49 0.01
1017	LM2903M	+5V/8P	GND/4P		C50 0.01
IC18	# PC358G2	+5 V / 8 P	GND/4P		C51 0.01
IC19	LM2903M	+5V/8P	GND/4P		C52 0.01
1000	TOAPIE	. EV/00	CMD/2D		200 0 04



SV-97AP BOARD 1-625-540-14 BVW-300AP(EK)

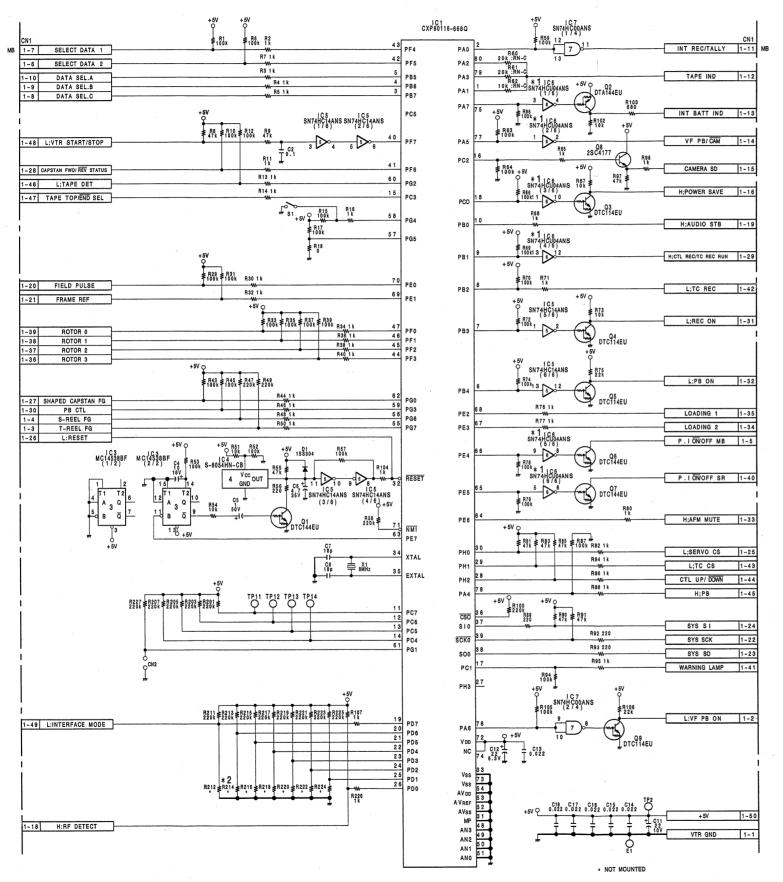
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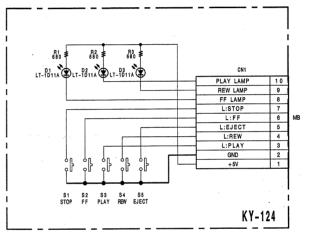
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SY-117CP; SYSTEM CONTROL KY-124;KEY BOARD





KY-124 BOARD 1-625-549-11 BVW-300AP(EK)



MARK	CHANGE INFORMATION	SERIAL NO.
* 1	IC6 TC40H004F IC6 TC40H004F SN74HCU04ANS	42157-
* 2	R214 DELETE	42004-

SY-117CP BOARD 1-625-539-21 BVW-300AP(EK)

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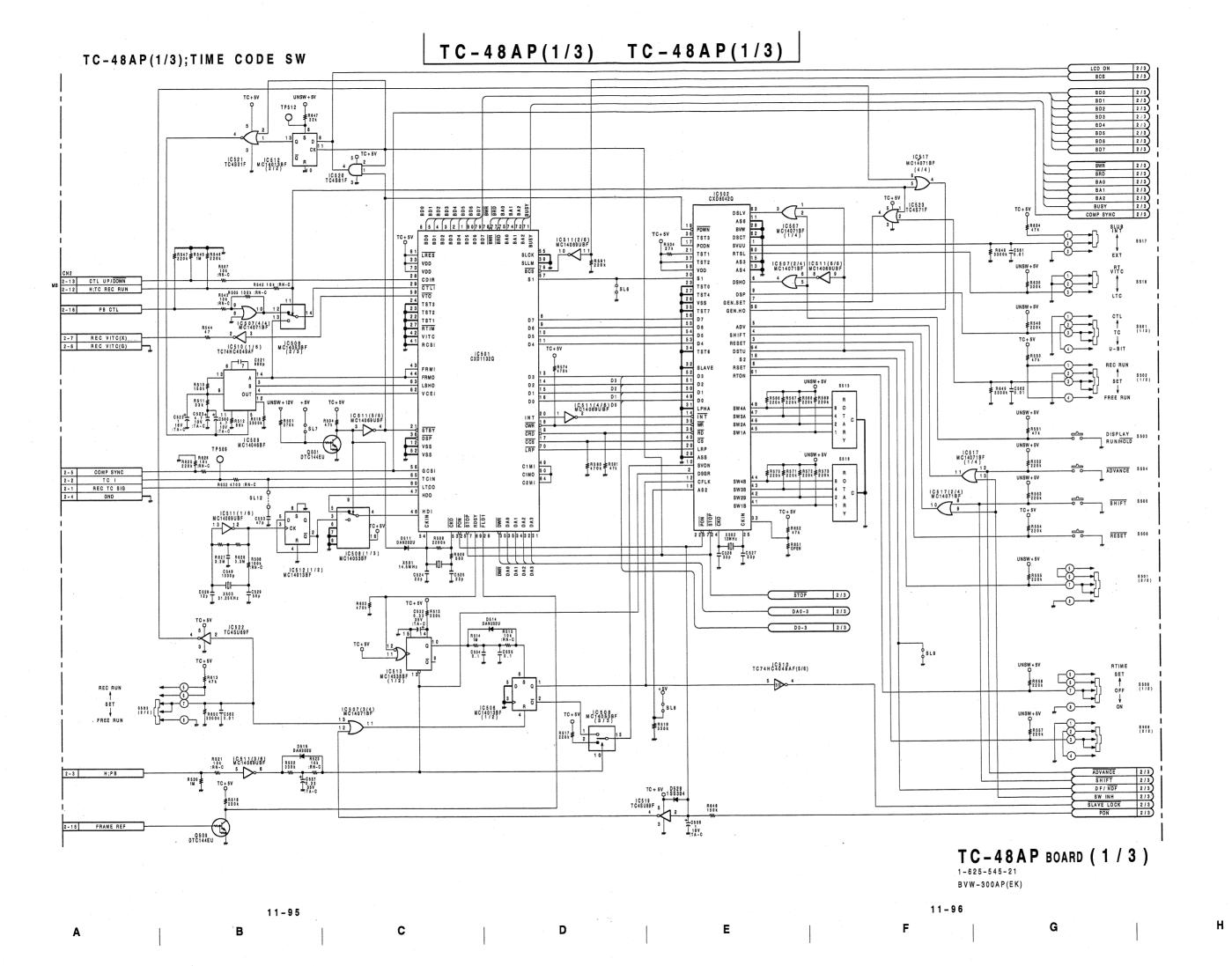
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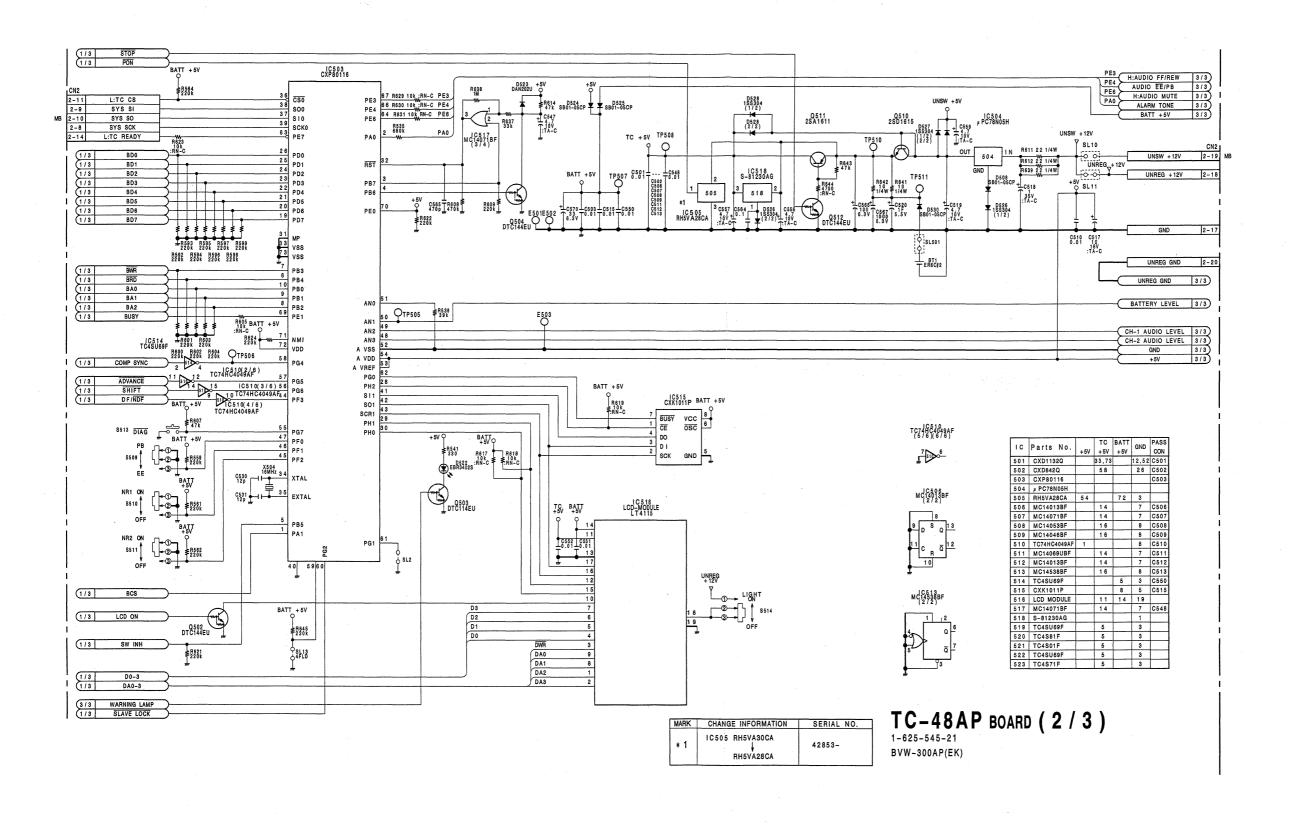
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TC-48AP(2/3); TIME CODE SW, INDICATOR



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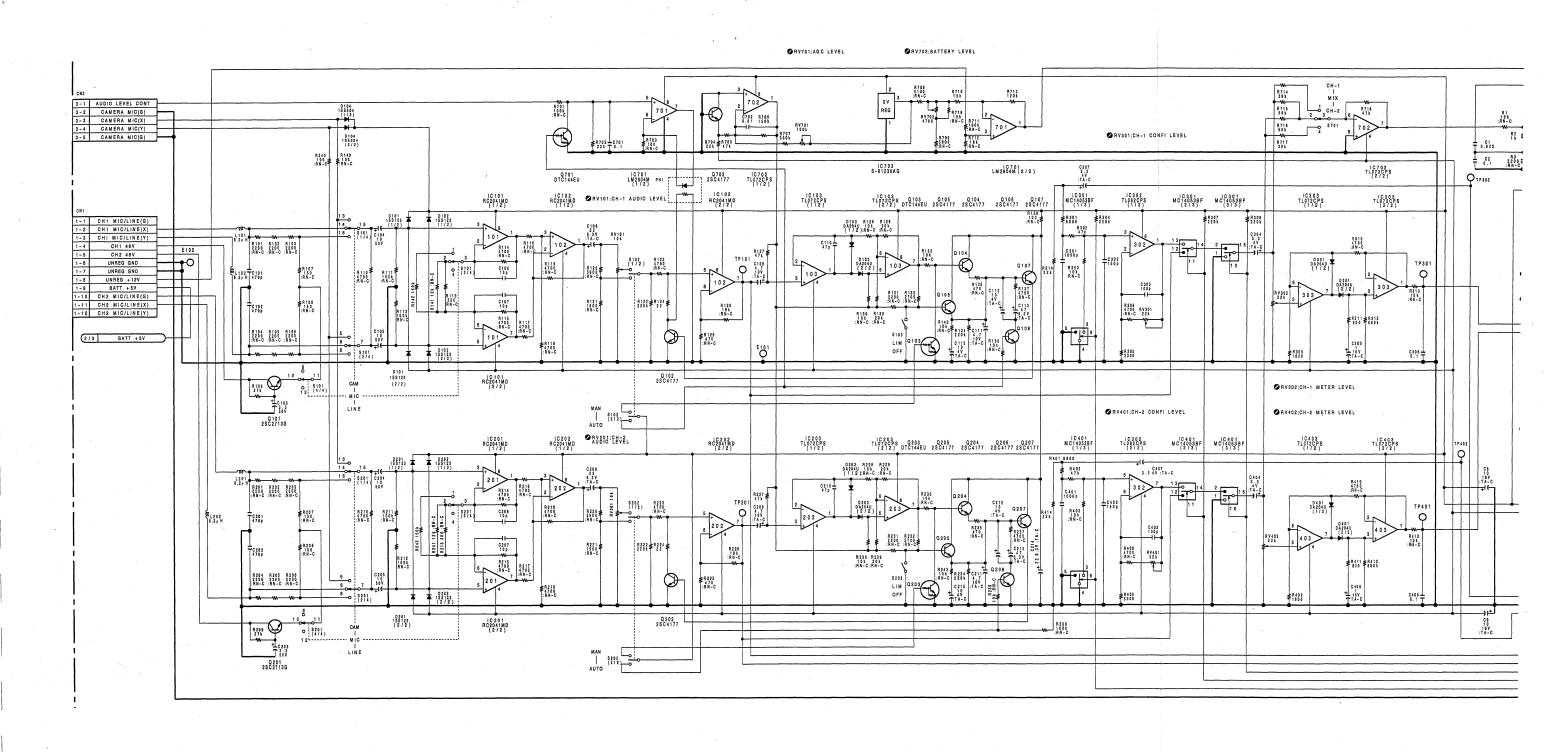
E

11-100

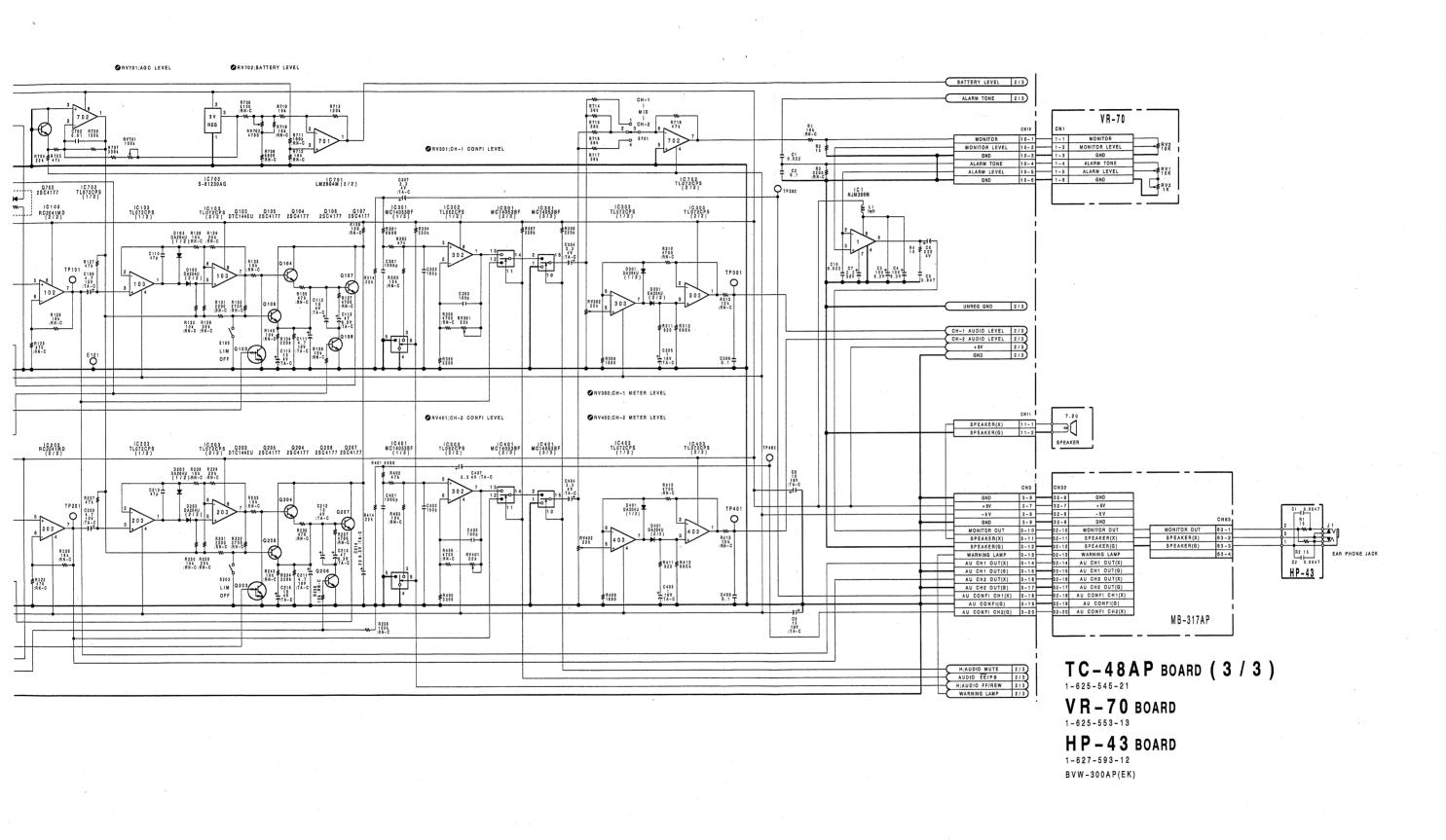
G

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TC-48AP(3/3); INPUT SELECT, LEVEL CONTROL, MONITOR

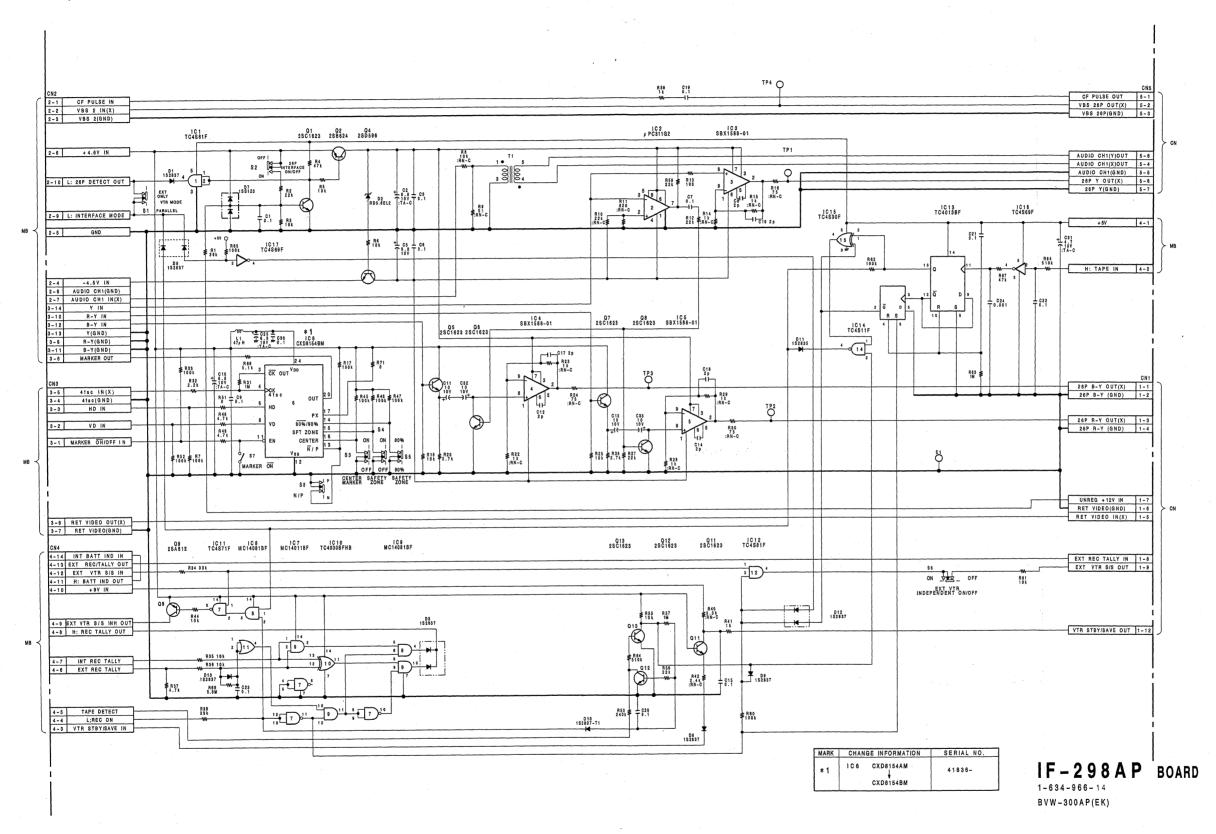


11-104 11-105



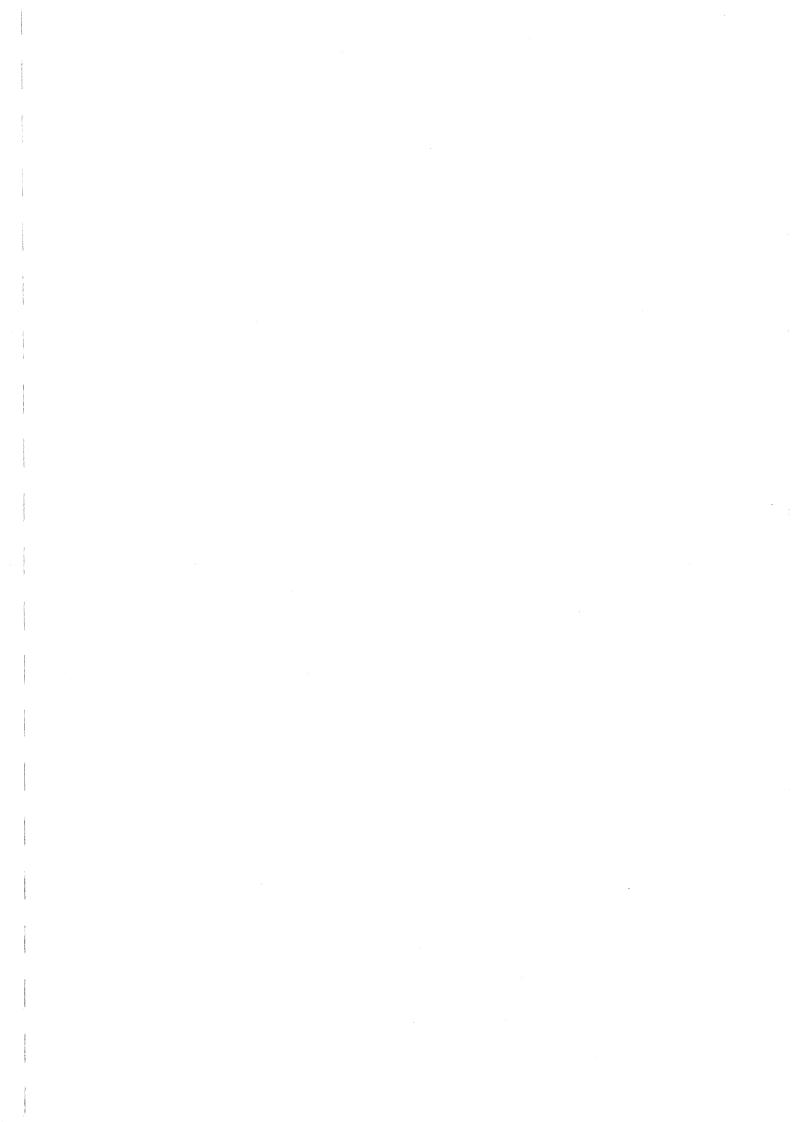
11-105 11-106

IF-298AP;INTERFACE

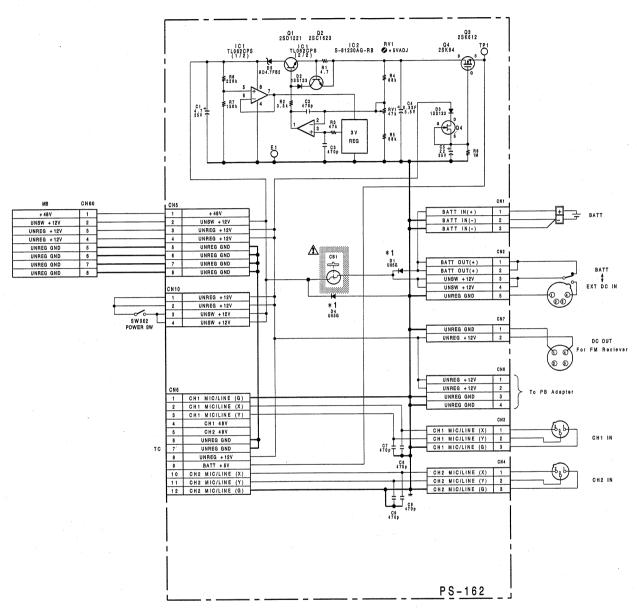


11-109 A B C D E F G H

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PS-162; POWER DISTRIBUTOR



NOTE:

The shaded and A -marked components are critical to safety. Replace only with same components as specified.

MARK	CHANGE INFORMATION	SERIAL No.
*1	D1,D4 U05E → U05G	42206-

PS-162 BOARD

1-625-547-13 BVW-300AP(EK)

11-112

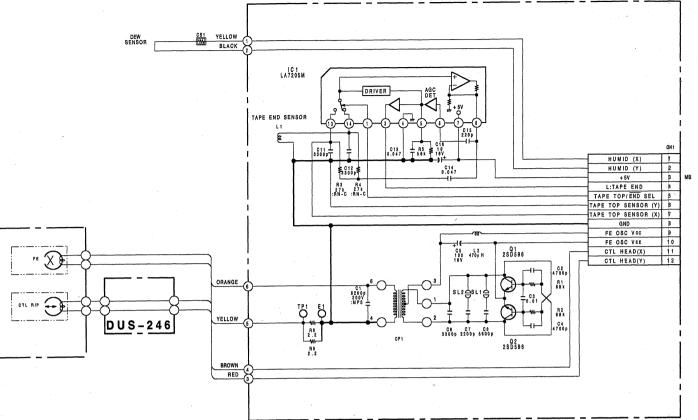
В

C

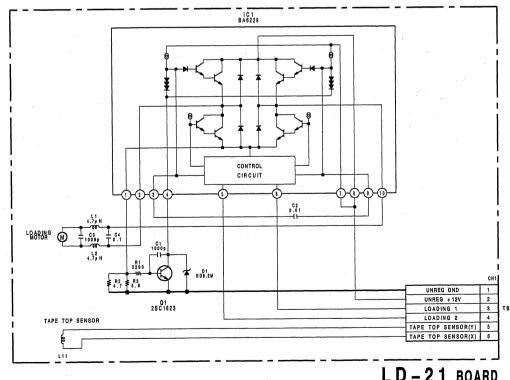
D

FE-4; FULL ERASE LD-21;LOADING

SR-40; MECHANICAL POSITION SENSOR



FE-4 BOARD 1-625-551-13,14 BVW-300AP(EK)



LD-21 BOARD
1-625-548-14
BVW-300AP(EK)

11-116

ROTOR 2

ROTOR 3

PI ON/OFF 2

SR-40

SR-40 BOARD

BVW-300AP(EK)

PI ON/OFF SR

GND

ROTOR 0

ROTOR 1

ROTOR 2

ROTOR 3

REG +5V

11-115

(i) **Q**

(2) **Q**

(3) **Q** 387 ₹

(4) 330k

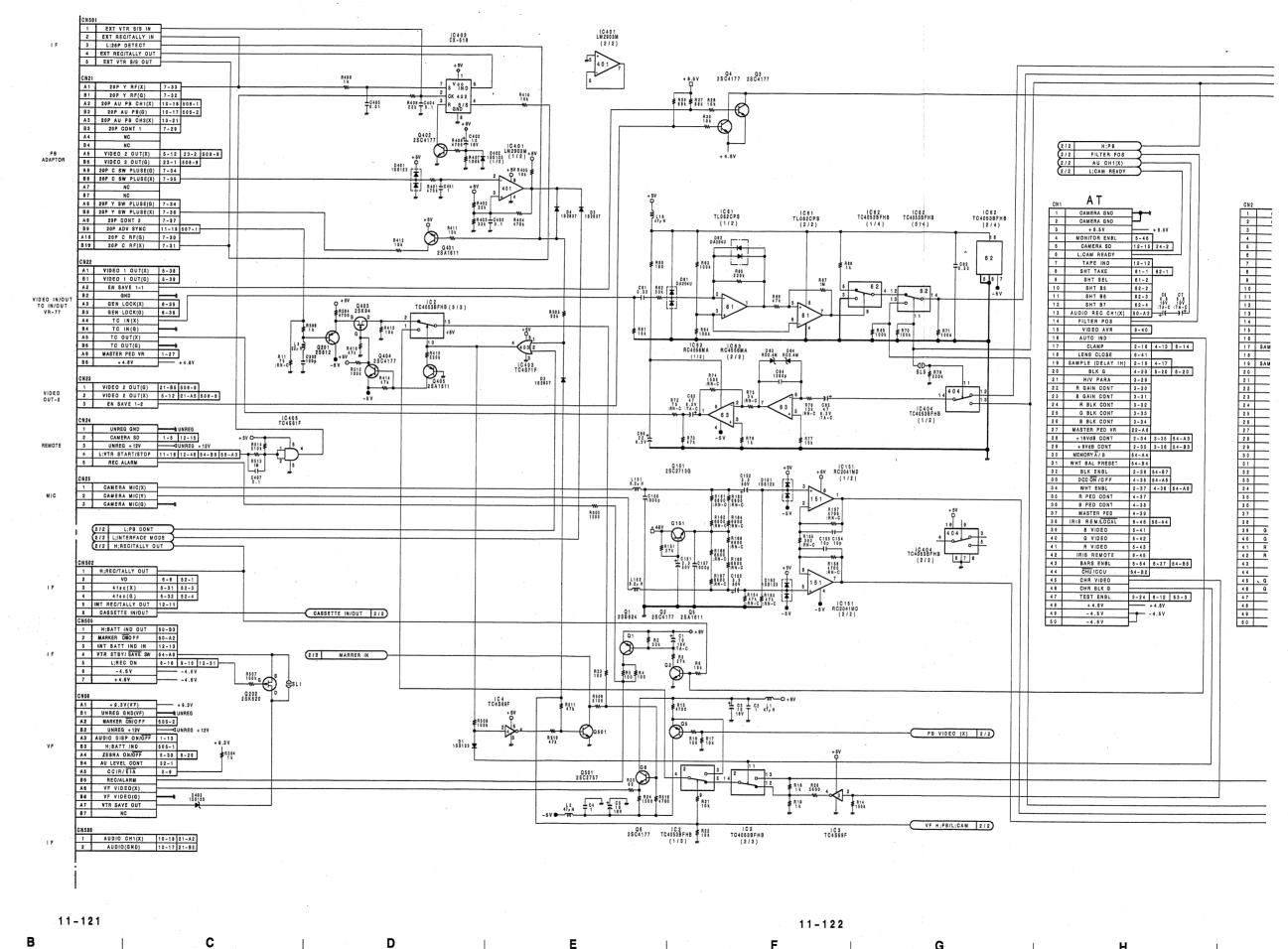
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MB-317AP(1/2); MOTHER BOARD

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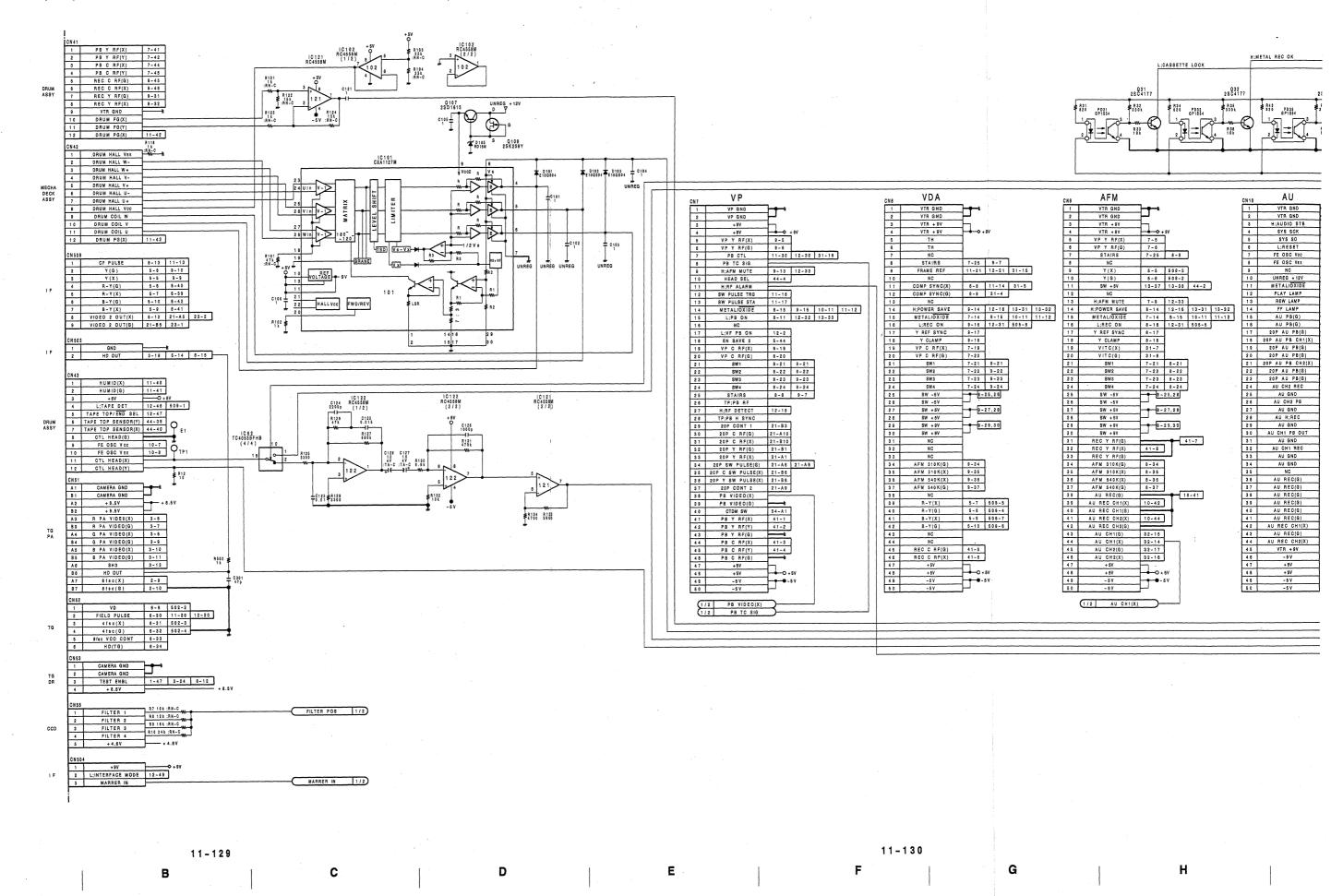
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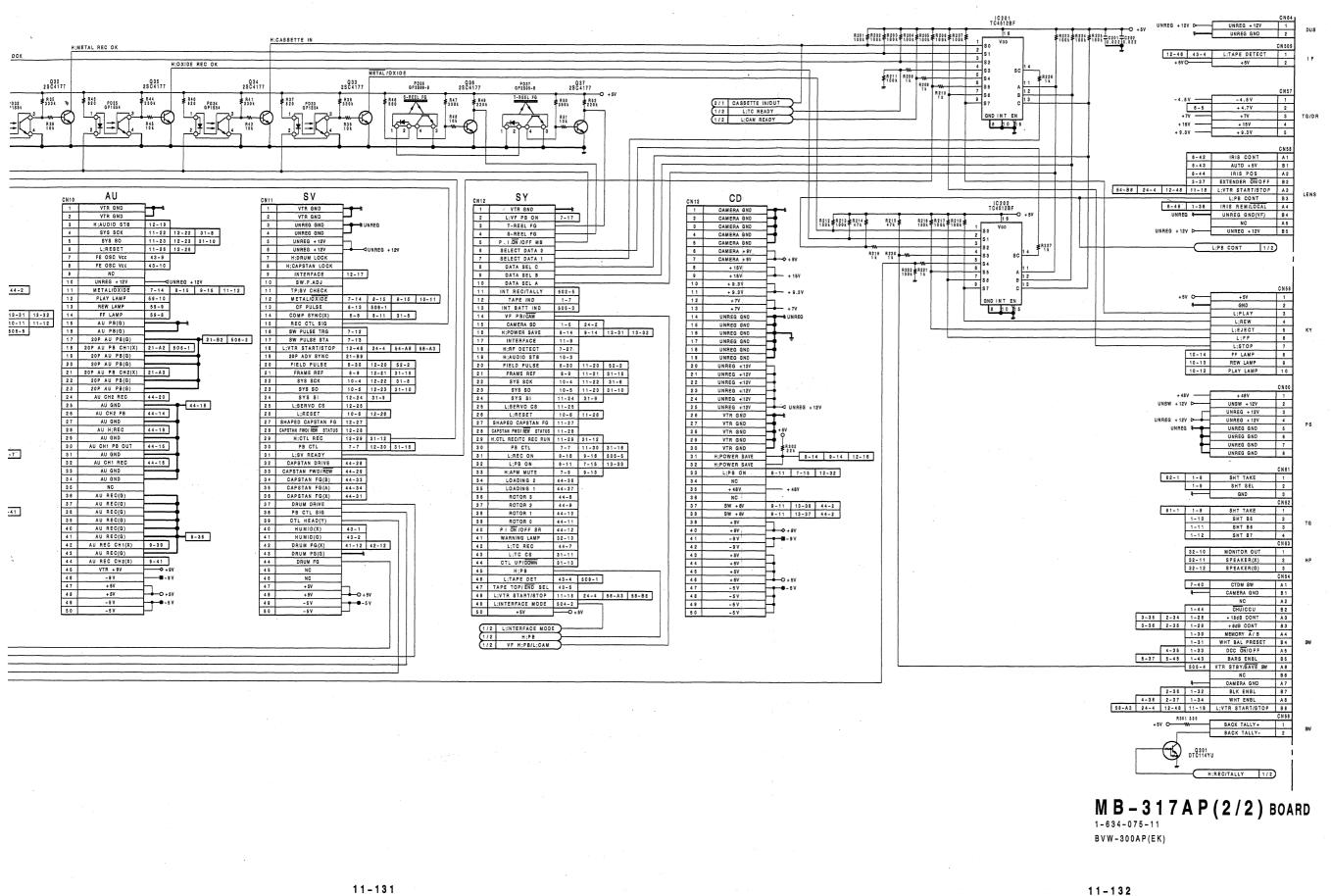
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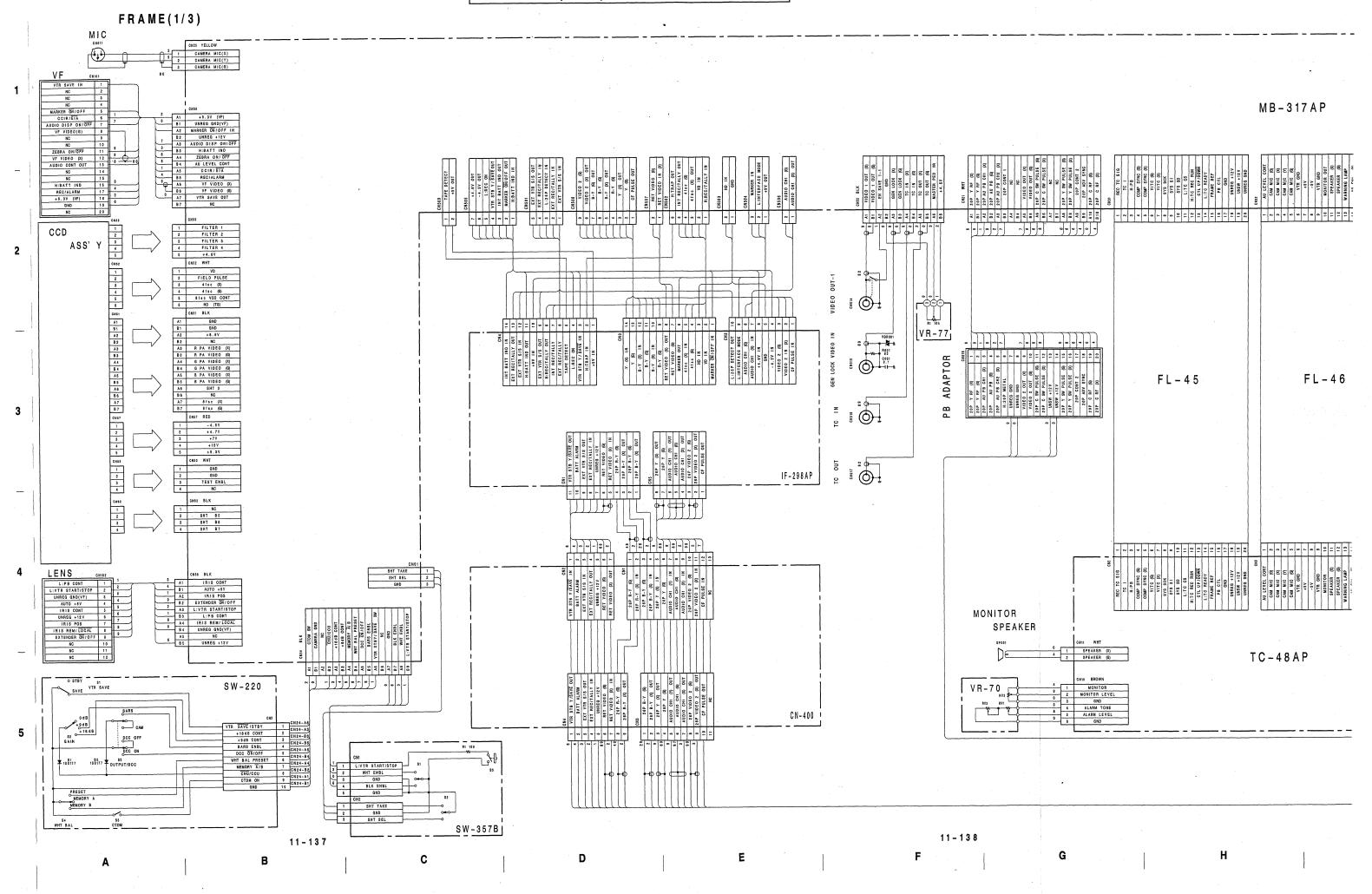
MB - 317AP (1/2) BOARD 1-634-075-11 BVW-300AP(EK)

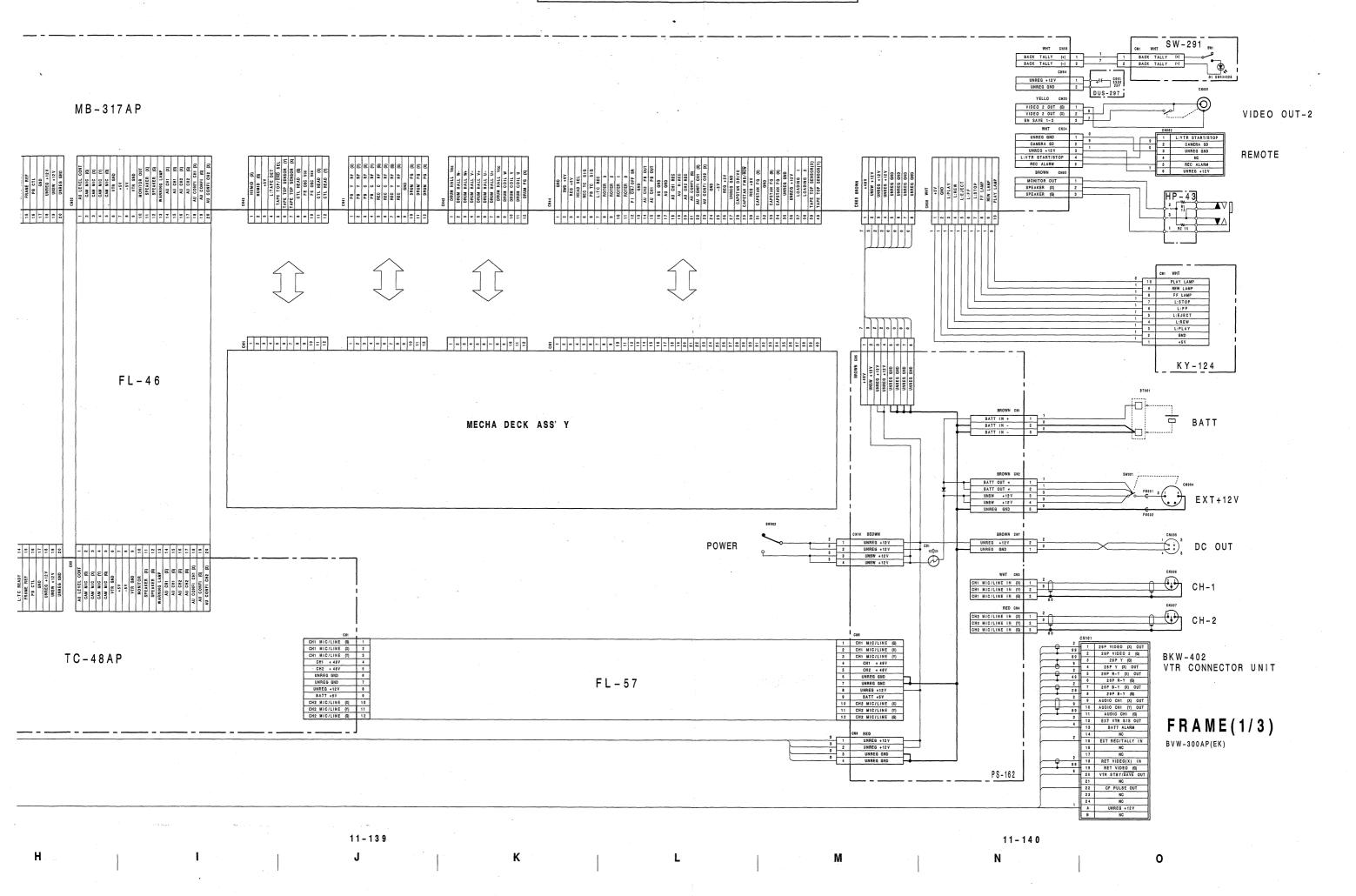
MB-317AP(2/2); MOTHER BOARD





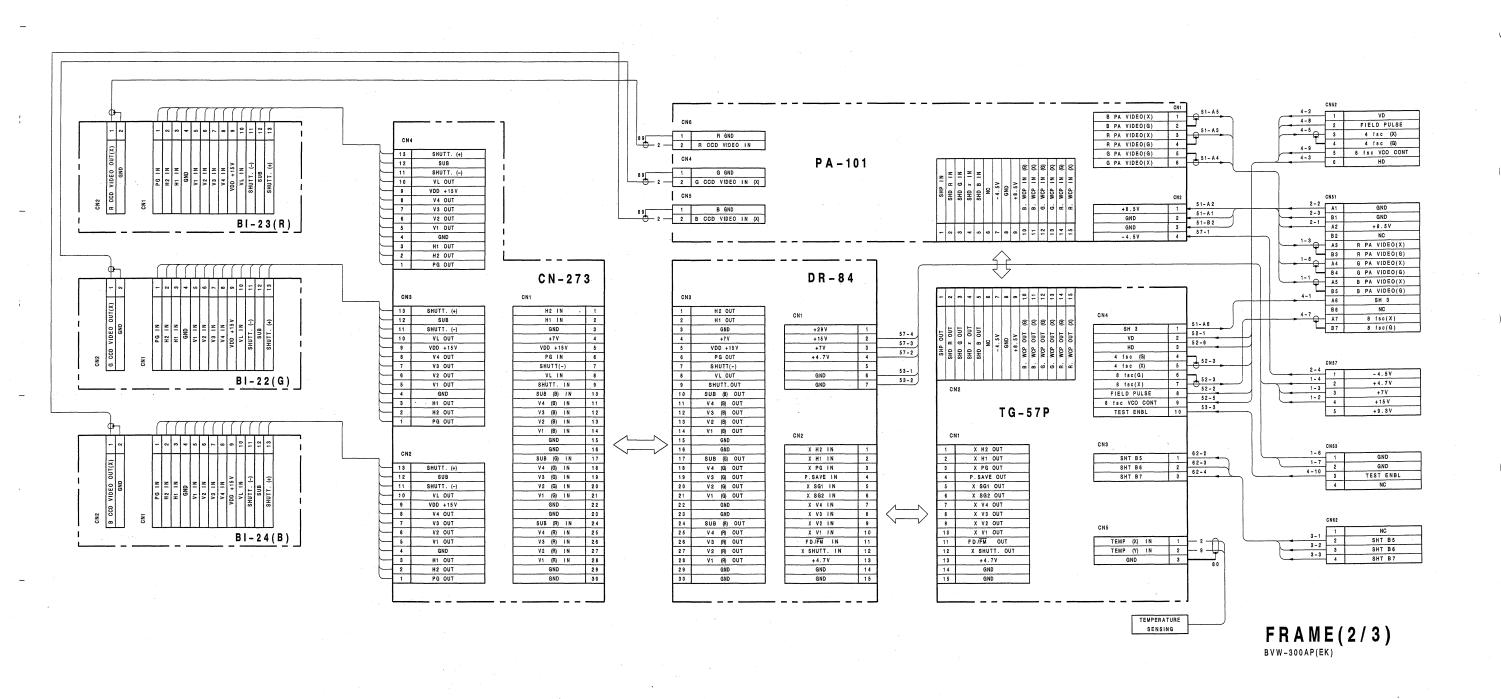
11-131





FRAME(2/3)

S/N; 41954 through 43999



11-143(a) C D E

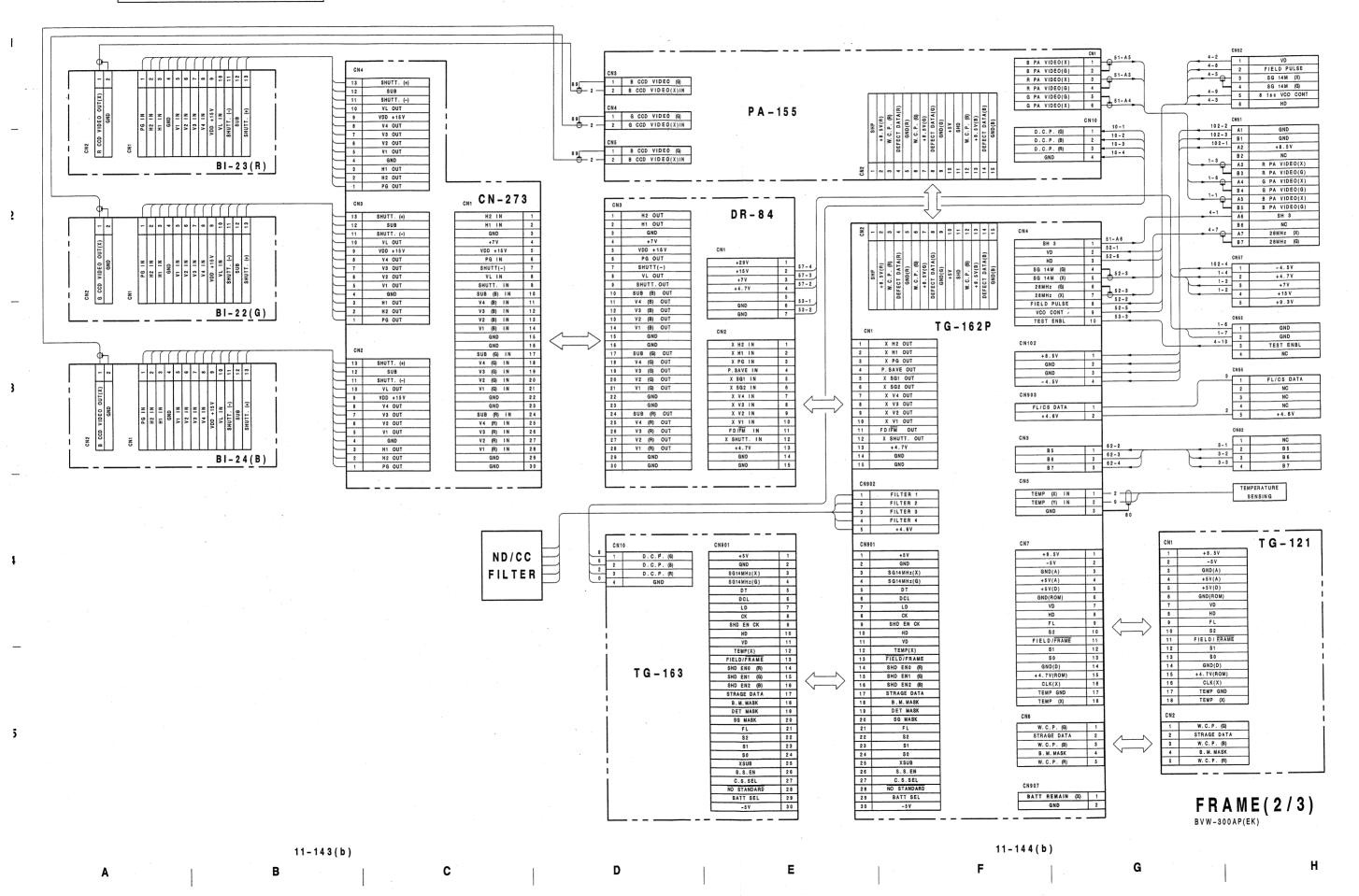
C D E G

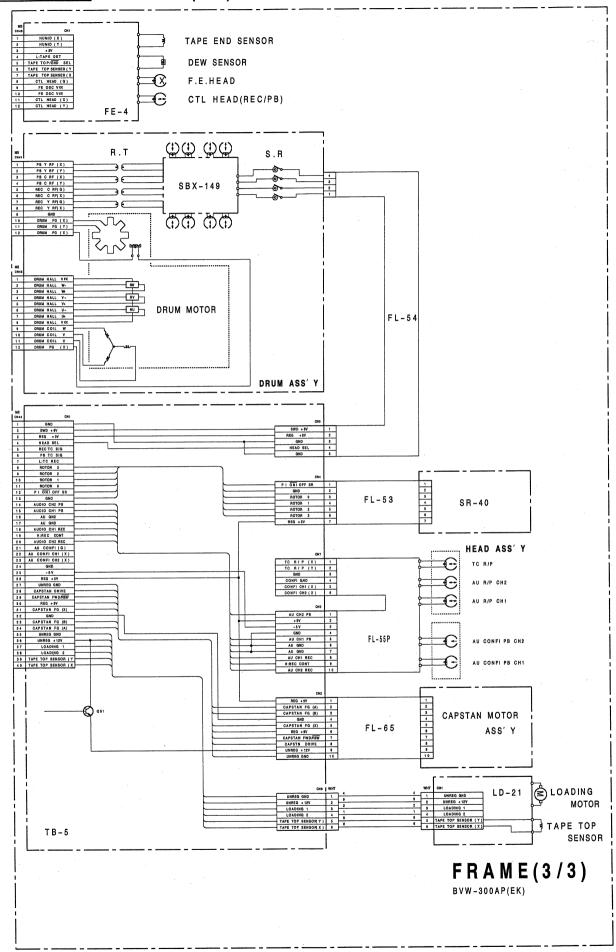
11-144(a)



FRAME(2/3)

S/N;44001 and higher





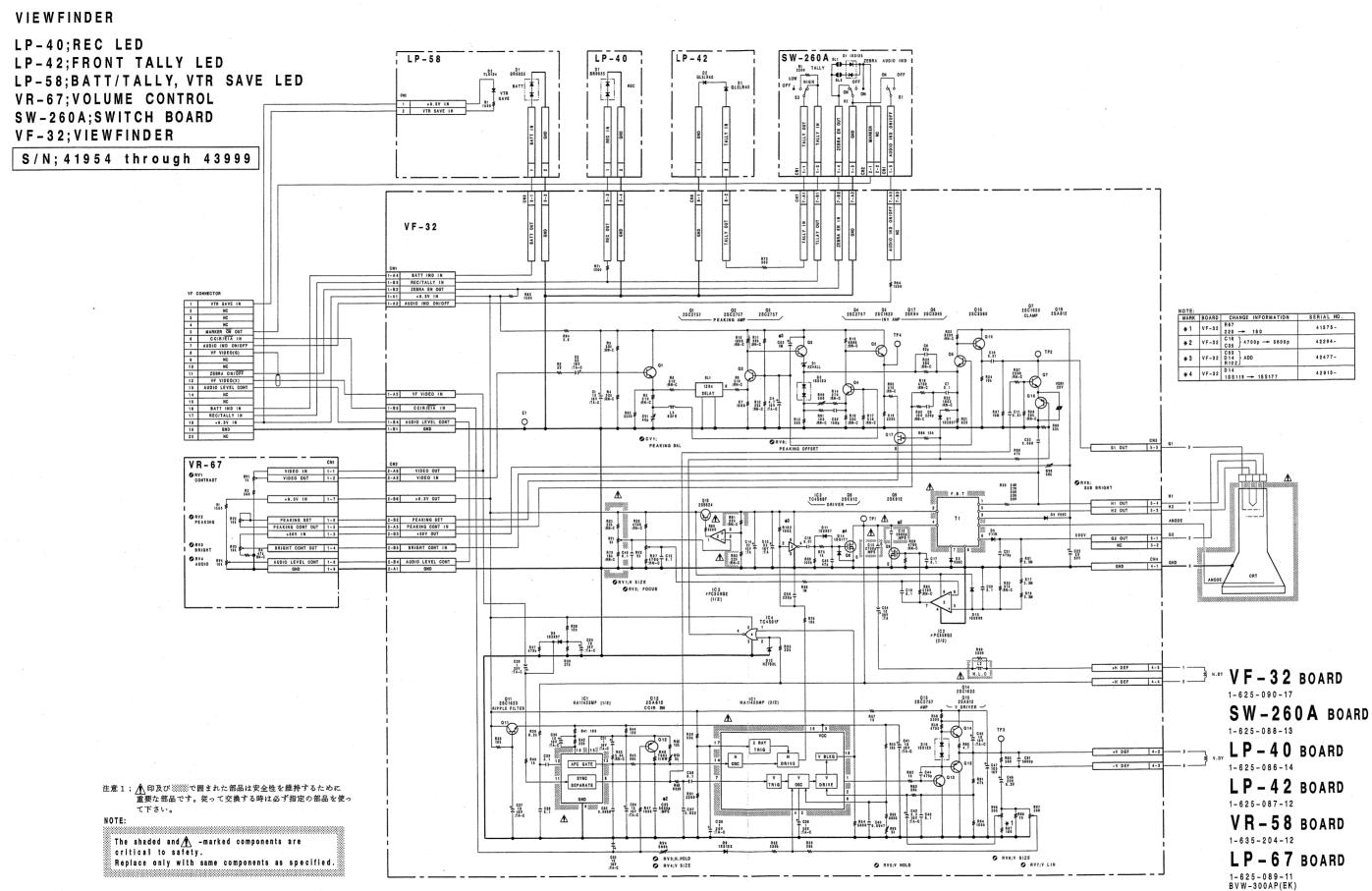
11-146

В

C

D

LP-40, LP-42, LP-58 VR-67, SW-260A, VF-32 VIEWFINDER VIEWFINDER LP-40, LP-42, LP-58 VR-67, SW-260A, VF-32



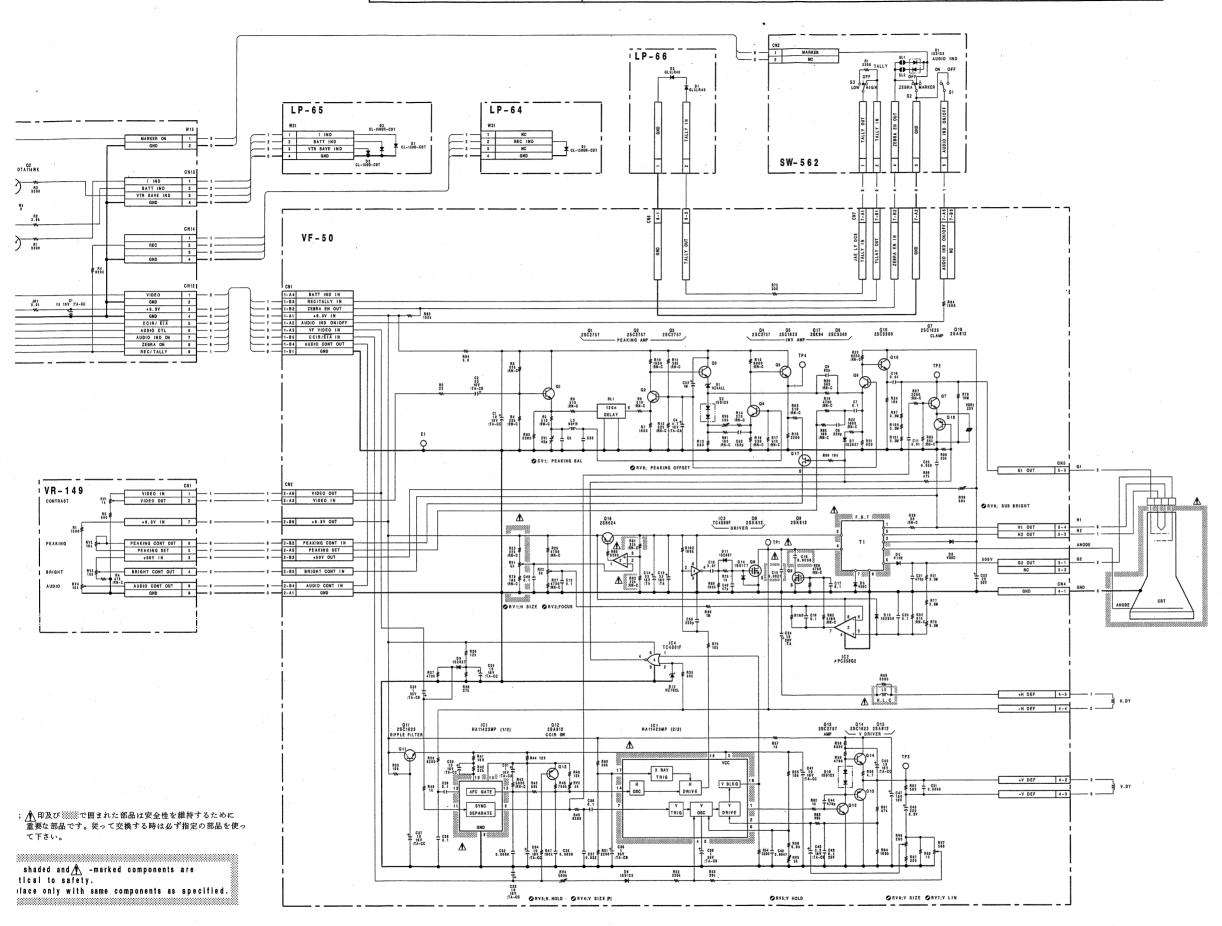
11-149(a)

B C D E F G

11-150(a)

11-149(b)

11-150(b)



VF-50 BOARD

SW-562 BOARD

VR - 149 BOARD

LP-64 BOARD

LP-65 BOARD

LP-66 BOARD

CN-771 BOARD
1-643-707-12
BVW-300AP(EK)

11-150-1(b)

11-150(b)

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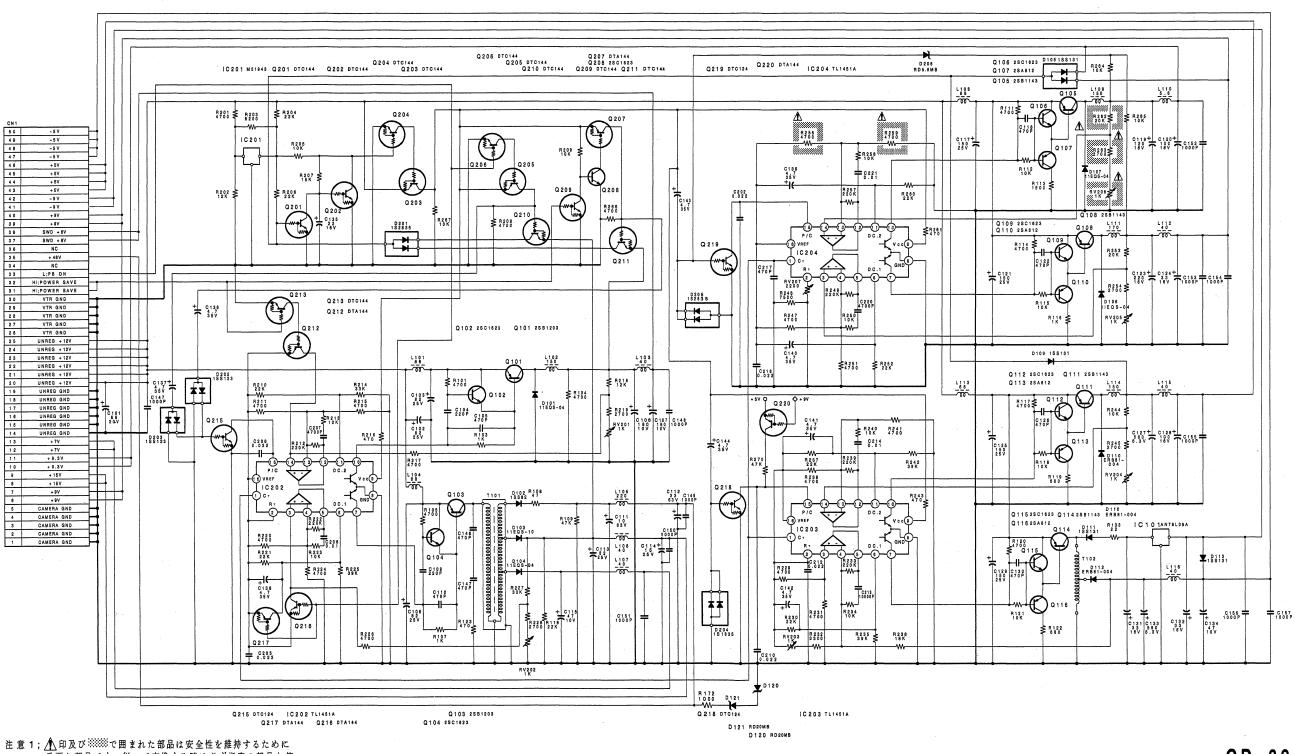
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CD-89:DC-DC CONVERTER



注意 1; ↑ 印及び *******で囲まれた部品は安全性を維持するために 重要な部品です。従って交換する時は必ず指定の部品を使っ

NOTE:

The shaded and 1 -marked components are critical to safety. Replace only with same components as specified. CD-89 BOARD

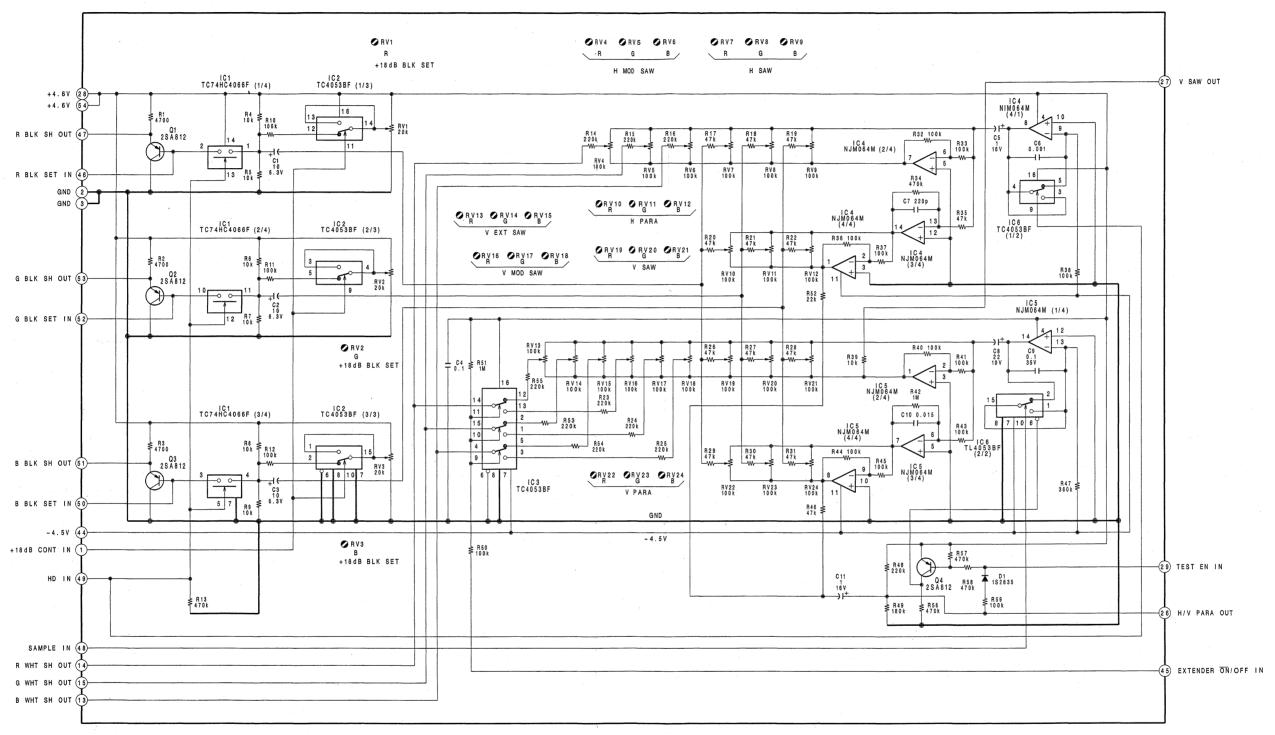
1-464-995-21 BVW-300AP(EK)

11-153

11-154



S/N; 41954 through 43999



BH-1252 1-808-253-12, 13 BVW-300AP(EK)

11-157(a) C D E F G

2

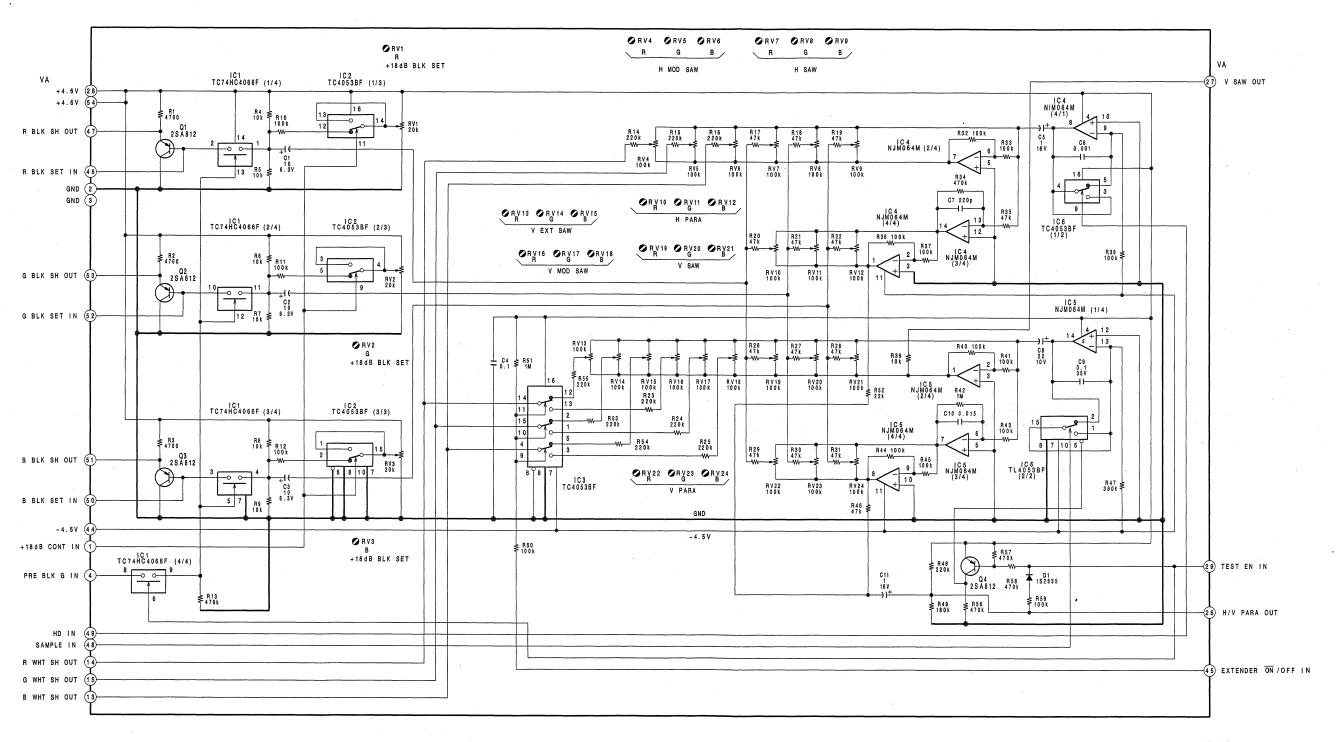
3

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S/N;44001 and higher



BH-1263 BOARD

BVW-300AP (EK) (BKW-301P)

11-157(b) A B C D E F G

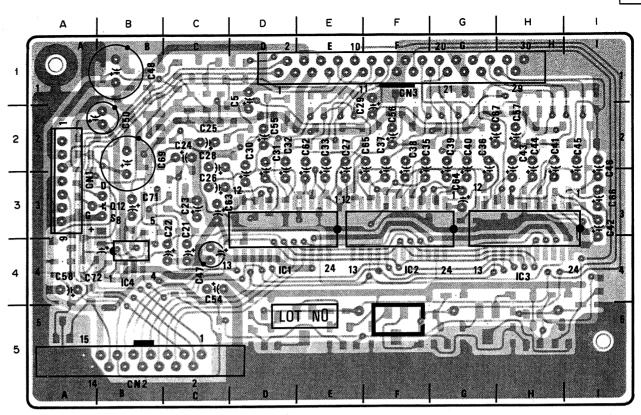
SECTION 12 PRINTED WIRING BOARDS

DR-84;CCD DRIVE

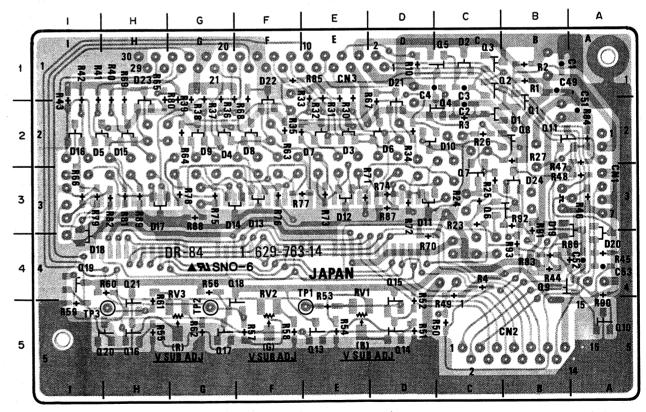
CN1 CN2 CN3	B-5	Q18 Q19 Q20 Q21	G-4 I-4 H-5 H-4	
D1 D2 D3 D4	B-2 C-1 E-2 G-2	RV1 RV2 RV3	E-4 F-4 G-4	
D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18	I-2 D-2 E-2 F-2 G-2 D-3 E-3 F-3 F-3 I-2 I-2 H-3 I-4 B-3	TP1 TP2 TP3	E-4 G-5 H-5	
D20 D21 D22 D23 D24	A-4 D-1 F-1 H-1 B-3			
IC1 IC2 IC3 IC4	D-4 F-4 H-4 B-4			
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17	B-2 B-1 C-1 C-2 C-1 C-3 C-3 B-2 B-4 A-5 B-2 B-3 E-5 D-5 D-4 H-5 G-5			

DR-84;CCD DRIVE

CN1 CN2 CN3	A-3 B-5 F-1	Q18 Q19 Q20 Q21	G-4 I-4 H-5 H-4
D1 D2 D3 D4	B-2 C-1 E-2 G-2	RV1 RV2 RV3	E-4 F-4 G-4
D5 D6 D7 D8 D9	I-2 D-2 E-2 F-2 G-2	TP1 TP2 TP3	E-4 G-5 H-5
D10 D11 D12 D13 D14	C-2 D-3 E-3 F-3 F-3		
D15 D16 D17 D18 D19 D20 D21 D22	H-2 I-2 H-3 I-4 B-3 A-4 D-1 F-1		
D23 D24	H-1 B-3		
IC1 IC2 IC3 IC4	D-4 F-4 H-4 B-4		
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11	B-2 B-1 C-1 C-2 C-1 C-3 C-3 B-2 B-4 A-5 B-2 B-3		
Q12 Q13 Q14 Q15 Q16 Q17	E-5 D-5 D-4 H-5 G-5		

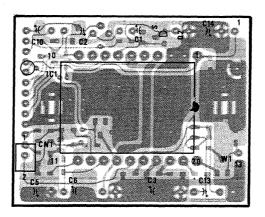


DR-84 - COMPONENT SIDE-

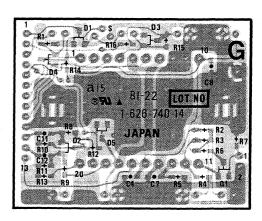


DR-84 -SOLDERING SIDE-1-629-763-14 BVW-300AP

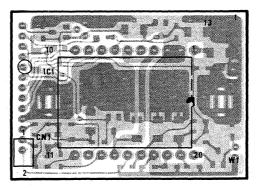
BI-22,23,24; CCD MOUNT CN-273; CONNECTOR



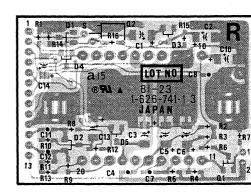
BI-22 -COMPONENT SIDE-1-626-740-14 BVW-300AP



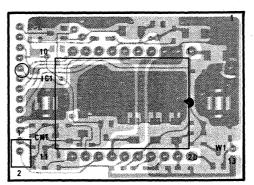
BI-22 -SOLDERING SIDE-1-626-740-14 BVW-300AP



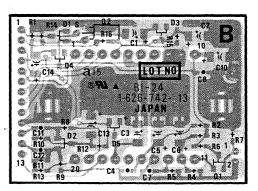
BI-23 -COMPONENT SIDE-1-626-741-13 BVW-300AP



BI-23 -SOLDERING SIDE-1-626-741-13 BVW-300AP

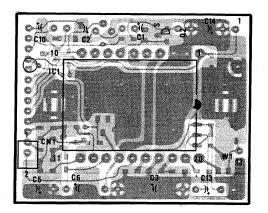


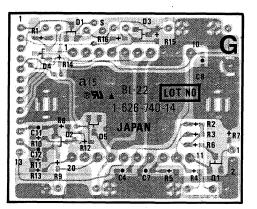
BI-24 -COMPONENT SIDE-1-626-742-13 BVW-300AP



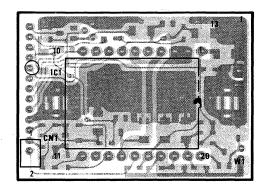
BI-24 -SOLDERING SIDE-1-626-742-13 BVW-300AP

BI-22,23,24; CCD MOUNT CN-273; CONNECTOR

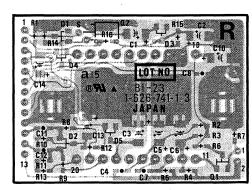




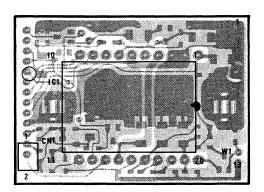
 $\mathbf{B} \ \mathbf{I} - \mathbf{2} \ \mathbf{2}$ -SOLDERING SIDE- $\frac{1-626-740-14}{8VW-300AP}$



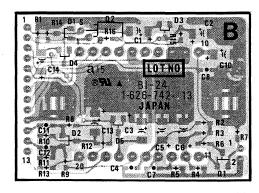
BI-23 $_{\substack{1-626-741-13\\\text{BVW}-300\text{AP}}}$ -COMPONENT SIDE-



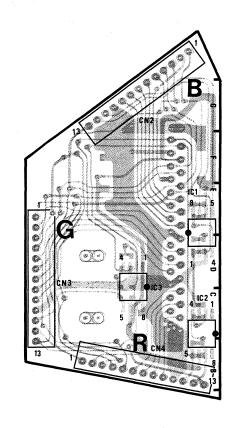
BI-23 -SOLDERING SIDE-



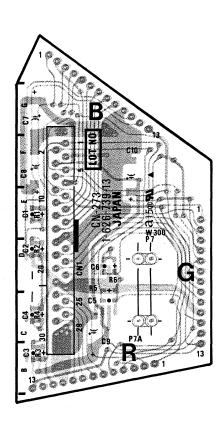
BI-24 -COMPONENT SIDE-1-626-742-13 BVW-300AP



BI-24 -SOLDERING SIDE-



CN-273 -COMPONENT SIDE-1-626-739-13 BVW-300AP



CN-273 -SOLDERING SIDE-1-626-739-13 BVW-300AP

12-8

PA-101:CCD PRE-AMP

S/N;	4	19	5 4	ti	1 r	0	u	g h	4	3 9	99	
												_

CN CN CN CN CN CN FL1 FL2 FL3	2 B-4 3 B-5 4 C-1 5 F-1 6 H-1	Q43 Q44 Q45 Q46 Q47 Q48 Q49 Q50 Q51 Q52 Q53
Q1 Q2 Q3 Q4 Q5	I-1 I-1 I-2 I-2 I-2	Q54 Q55 Q56 Q57
Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q22 Q23 Q24 Q25 Q26 Q27 Q28 Q29 Q30 Q31 Q32 Q33 Q34 Q35 Q37 Q36 Q37 Q39 Q40 Q41	H-3 G-2 G-3 H-4 H-4 I-3 I-4 H-5 G-1 G-2 G-2 G-2 F-3 E-1 E-2 F-4 G-3 G-4 F-3 E-1 B-1 A-1 D-1 D-1	RV1 RV2 RV3

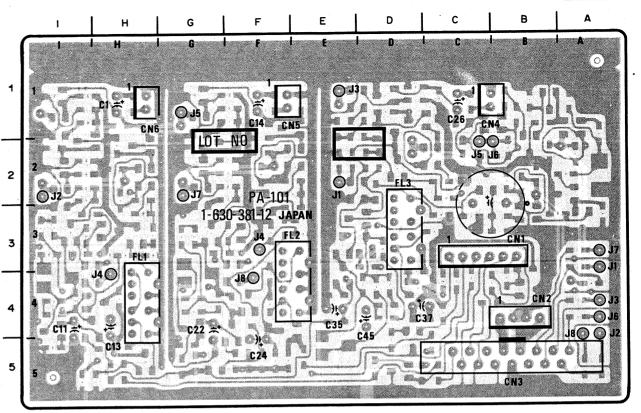
E-2 E-3 E-3 E-3 C-4 A-3 B-3 B-2 D-1 C-2 D-2 B-4 D-5 D-5

I-3 G-3 E-5

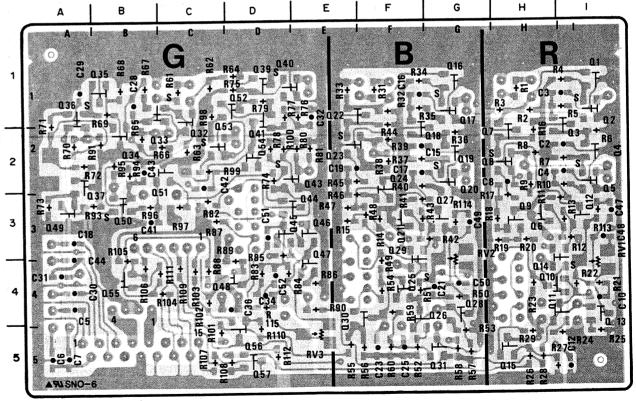
PA-101:CCD PRE-AMP

S/N; 41954 through 43999

CN1 CN2 CN3 CN4 CN5 CN6	B-3 B-4 B-5 C-1 F-1 H-1	Q43 Q44 Q45 Q46 Q47 Q48 Q49	E-2 E-3 E-3 E-3 C-4 A-3
FL1 FL2 FL3	H-3 F-3 D-2	Q50 Q51 Q52 Q53	B-3 B-2 D-1 C-2
Q1 Q2 Q3 Q4 Q5	I-1 I-1 I-2 I-2	Q54 Q55 Q56 Q57	D-2 B-4 D-5 D-5
Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24 Q25	H-3 G-2 G-2 H-3 H-4 H-4 H-5 G-1 G-2 G-2 G-2 F-3 E-1 E-2 F-2 F-4	RV1 RV2 RV3	I-3 G-3 E-5
Q26 Q27 Q28 Q29 Q30 Q31 Q32	G-4 G-3 G-4 F-3 E-4 G-5 C-2		
Q33 Q34 Q35 Q36 Q37 Q39 Q40 Q41	B-1 B-2 B-1 A-1 A-2 D-1 D-1		
41	D-2		

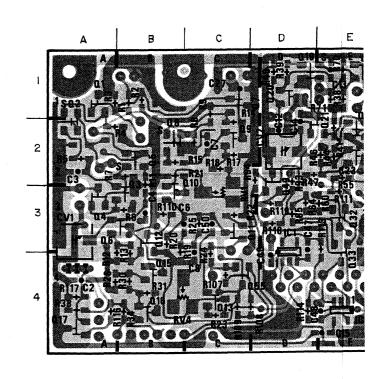


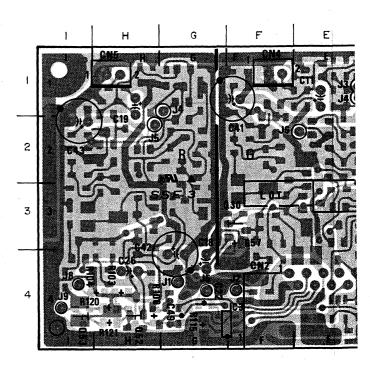
PA-101 -COMPONENT SIDE-



PA-101 -SOLDERING SIDE-1-630-381-12 BVW-300AP

CN1	A – 4	Q32	E - 3
CN2	F – 4	Q33	E - 4
CN3	B - 1	Q34	G - 1
CN4	F – 1	Q35	G - 2
CN5	H – 1	Q36	G-2
CN10	A – 4	Q37	G-2
		Q38	H - 2
CV1	A - 3	Q39	G - 3
CV2	D - 2	Q 4 0	H – 1
CV3	G - 3	Q 4 1	H – 2
		Q 4 2	H – 2
1 C 1	D - 3	Q 4 3	G – 3
I C 2	E – 4	Q 4 4	1 – 3
I C 3	F - 4	Q 4 5	H – 3
		Q 4 6	H – 4
Q 1	A – 1	Q 4 9	D – 3
Q 2	A – 1	Q 5 1	G – 4
Q 3	B – 2	Q 5 2	1 - 4
Q 4	A – 3	Q 5 3	1 – 4
Q 5	B - 2	Q 5 5	C - 3
Q 6	A - 3		
Q 7	D-1	RV1	C - 3
Q 8	B – 2	RV2	F - 3
Q 9	C-2	RV3	1 - 3
Q 1 0	C-2	RV4	B - 4
Q11	C-3	RV5	E - 4
Q12	B - 3	RV6	1 – 4
Q13	C – 3 B – 4		
Q15			
Q16	B – 4 A – 4		
Q17	E-1		
Q18 Q19	D-1		
Q 19 Q 20	D – 1		
Q 2 1	E-2		
Q 2 2	E-3		
Q 2 4	F-1		
Q25	F – 1		
Q 2 6	F - 2		
Q 2 7	F-3		
Q28	F-3		
Q29	E-3		
Q30	F - 3		
200	. •		

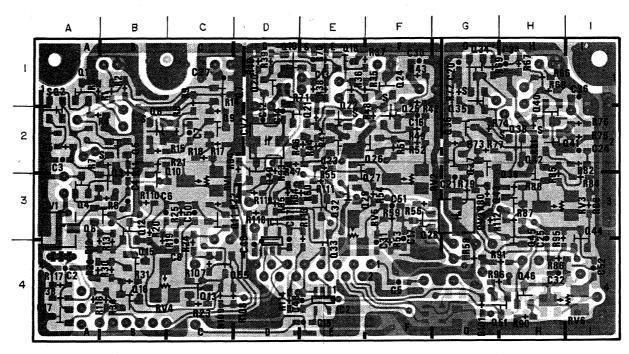




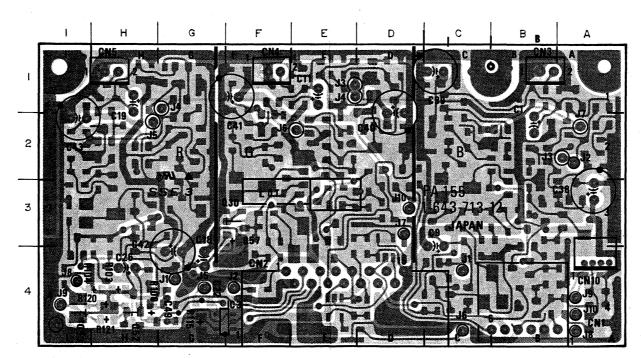
PA-155;CCD PRE-AMP

S/N;44001 and higher

CN1 CN2 CN3 CN4 CN5	A – 4 F – 4 B – 1 F – 1 H – 1	Q32 Q33 Q34 Q35 Q36	E - 3 E - 4 G - 1 G - 2 G - 2
CN10 CV1	A – 4 A – 3	Q37 Q38 Q39	G – 2 H – 2 G – 3
CV2 CV3	D - 2 G - 3	Q 4 0 Q 4 1	H – 1 H – 2
C 1 C 2 C 3	D – 3 E – 4 F – 4	Q 4 2 Q 4 3 Q 4 4 Q 4 5	H - 2 G - 3 I - 3 H - 3
Q1 Q2 Q3	A – 1 A – 1 B – 2	Q 4 6 Q 4 9 Q 5 1 Q 5 2	H – 4 D – 3 G – 4 I – 4
Q4 Q5 Q6	A – 3 B – 2 A – 3	Q 5 3 Q 5 5	I – 4 C – 3
Q7 Q8 Q9	D - 1 B - 2 C - 2	RV1 RV2 RV3	C-3 F-3 1-3
Q10 Q11 Q12 Q13 Q15	C - 2 C - 3 B - 3 C - 3 B - 4	RV4 RV5 RV6	B – 4 E – 4 I – 4
Q16 Q17 Q18 Q19	B – 4 A – 4 E – 1 D – 1		
Q20 Q21 Q22 Q24	D - 1 E - 2 E - 3 F - 1		
Q 2 5 Q 2 6 Q 2 7	F – 1 F – 2 F – 3		
Q 2 8 Q 2 9 Q 3 0	F – 3 E – 3 F – 3		



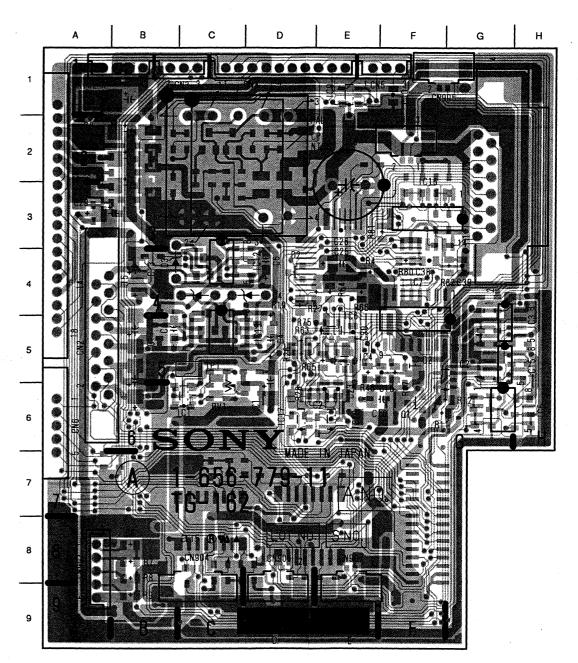
PA-155 -COMPONENT SIDE-1-643-713-12 BVW-300AP (BKW-301P)



PA-155 -SOLDERING SIDE-1-643-713-12 BVW-300AP (BKW-301P)

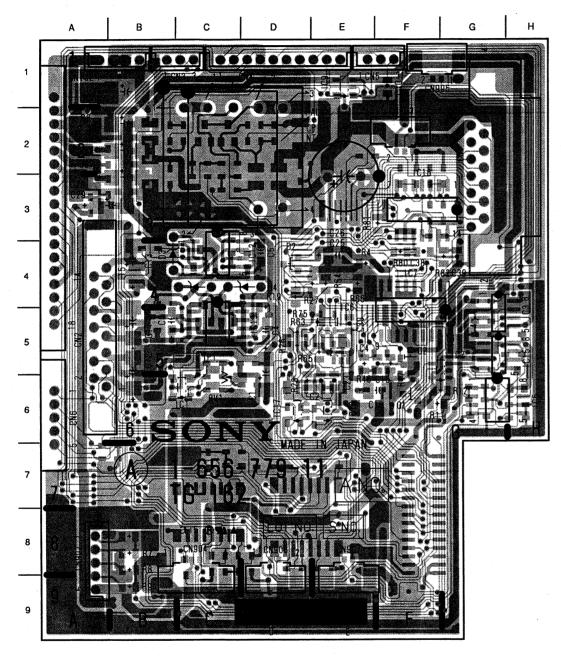
S/N;44001 through 44160

CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN102	G-2 A-5 B-1 C-1 E-1 A-6 A-2 A-1	Q1 Q2 Q3 Q4 Q5 Q6 Q7		F
CN901		RV	1	C
CN902 CN903 CN904 CN905 CN906 CN907	F-2 C-8 F-1 D-8	TP	1	C
CP1	D-2	(
D1 D2 D3 D4 D5	H-6 D-4 B-4 D-4 B-4			
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10	C-6 G-5 H-5 E-5 G-6 E-5 F-4 C-8 E-1 D-8			
IC12 IC13 IC14 IC15 IC16 IC17 IC18	D-4 D-5 D-5 H-5 F-3 D-6 E-6			

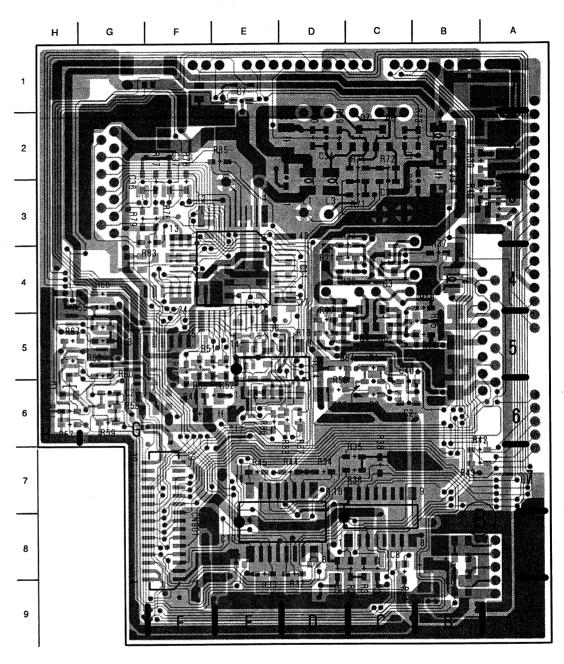


TG-162P -COMPONENT SIDE
1-656-779-11
BVW-300AP
(BKW-301P)

S/N;44001 through 44160



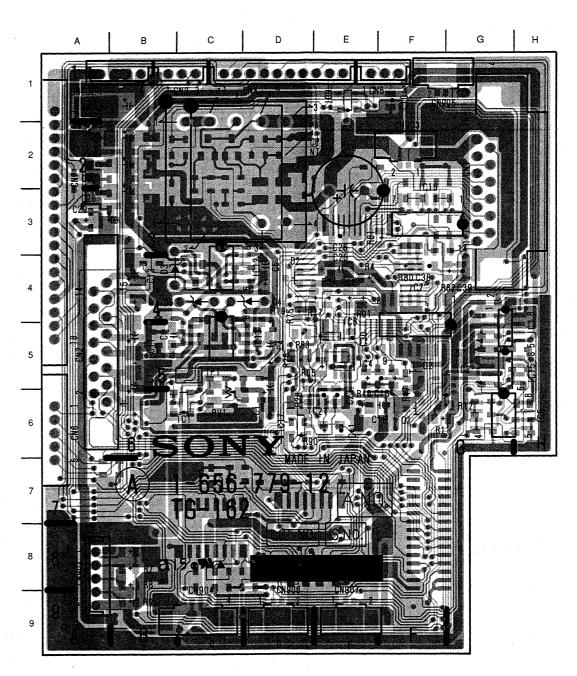
TG-162P -COMPONENT SIDE1-656-779-11
BVW-300AP
(BKW-301P)



TG-162P –**SOLDERING SIDE**–
1-656-779-11
BVW-300AP
(BKW-301P)

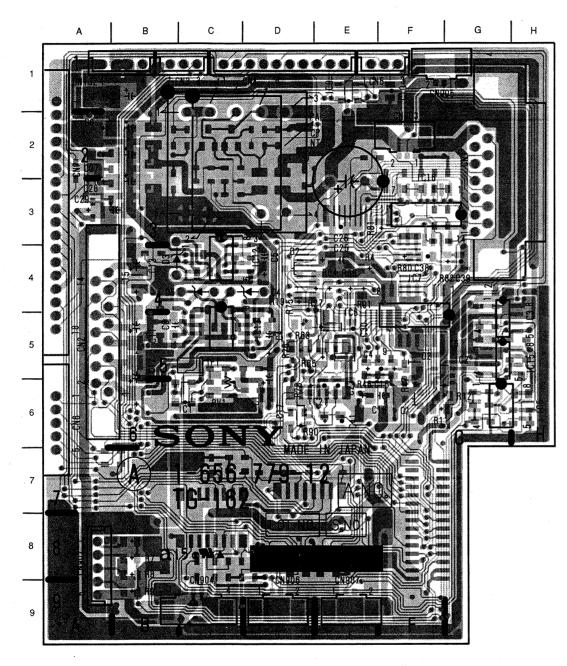
S/N;44161 and higher

CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN102 CN901 CN902 CN903 CN904 CN905 CN906 CN907	G-2 A-5 BC-1 E-1 A-6 A-2 F-8 A-8 F-2 C-1 D-8 E-8	Q1 Q2 Q3 Q4 Q5 Q6 Q7 RV1 TP1	F-6 F-5 C-4 C-5 C-2 C-2 C-6
CP1	D-2		
D1 D2 D3 D4 D5	H-6 D-4 B-4 D-4 B-4		
IC1 IC2 IC3 IC5 IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13 IC14 IC15 IC16 IC17	6-5-5-5-6-4-4-8-1-8-4-4-5-5-5-2-6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		

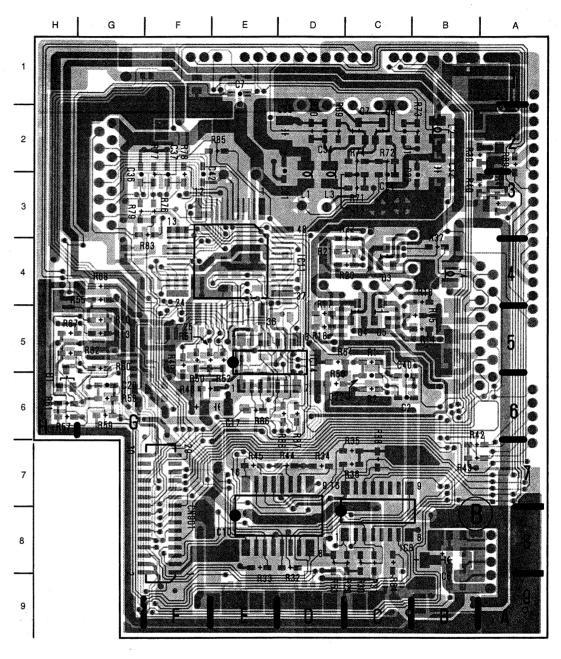


TG-162P -COMPONENT SIDE-1-656-779-12 BVW-300AP (BKW-301P)

S/N;44161 and higher

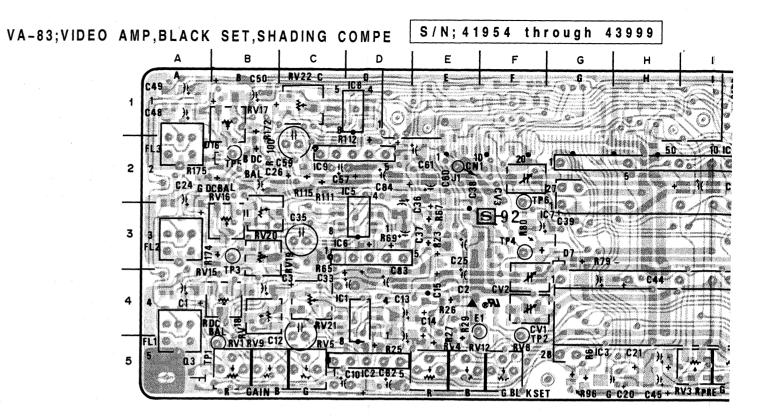


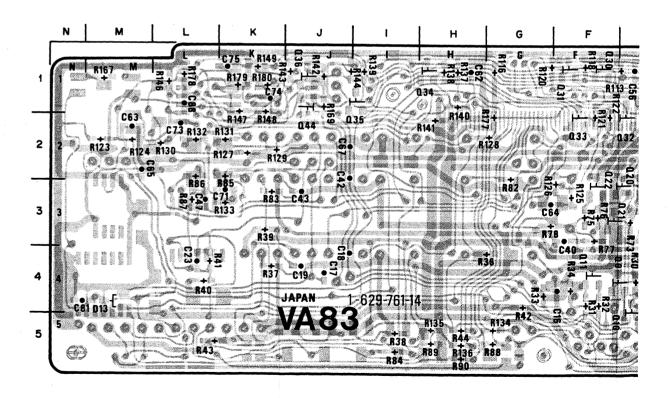
TG-162P -COMPONENT SIDE-

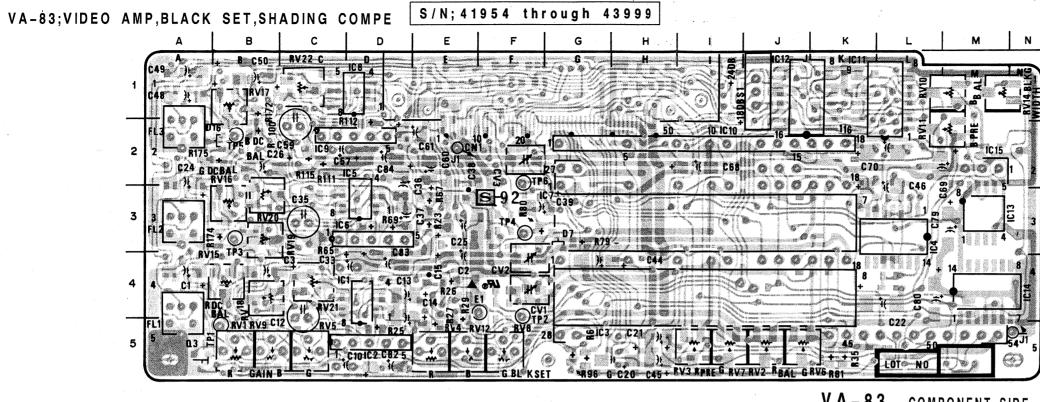


TG-162P -SOLDERING SIDE-1-656-779-12 BVW-300AP (BKW-301P)

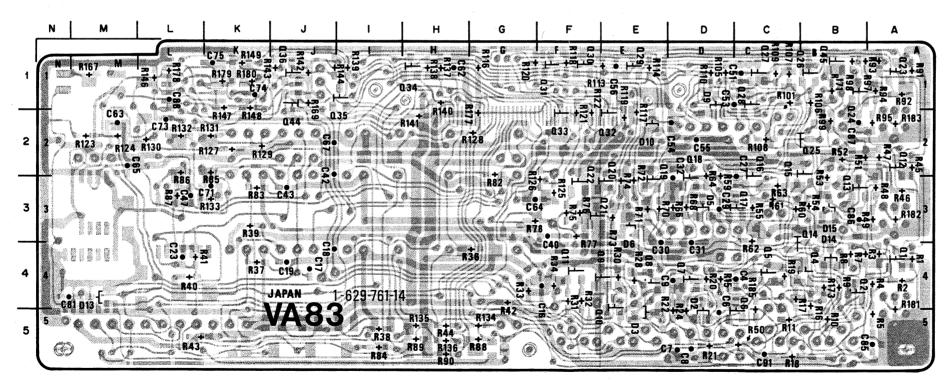
CN1	E-2	Q12	A-2	TP2	F-5	
		Q13	B-3	TP3	B-3	
CV1	F-4	Q14	B-3	TP4	F-3	
CV2	F-4	Q15	B-2	TP5	B-2	
CV3	F-2	Q16	C-2	TP6	F-2	
-	5 .	017	C-3			
D2	D-4	018	D-3			
D3 D5	E-5 D-3	Q19 Q20	E-3 E-3			
D6	E-3	Q21	F-3			
D7	G-3	022	F-3			
D9	D-1	023	A-1			
D10	E-2	024	B-1			
D13	M-4	025	B-2			
D14	B-4	Q26	B-1			
D15	B-3	Q27	C-1			
D16	B-2	Q28	C-1			
		Q29	E-1			
E1	F-4	Q30	F-1			
		031	F-1			
FL1	A-5	Q32	E-2			
FL2	A-3	033	F-2			
FL3	A-2	Q34	H-1			
IC1	D-4	Q35 Q36	I-1 J-1			
IC2	D-4 D-5	Q44	J-1 J-1			
IC3	G-4	Q45	B-1			
IC4	L-3	Q-10	5 1			
IC5	D-2	RV1	B-5			
IC6	C-3	RV2	J-5			
IC7	G-3	RV3	1-5			
IC8	D-1	RV4	E-5			
IC9	C-2	RV5	C-5			
IC10	1-2	RV6	J-5			
IC11	K-1	RV7	1-5			
IC12	J-1	RV8	F-5			
IC13	M-3	RV9	B-5			
IC14 IC15	M-4 M-2	RV10 RV11	L-1 L-2			
1015	101-2	RV11	F-5			
Q1	A-4	RV14	N-1			
Q2	B-4	RV15	A-4			
Q3	A-5	RV16	B-2	* * *		
Q4	B-4	RV17	B-1			
Q5	C-4	RV18	B-4			
Q6	C-4	RV19	B-3			
Q7	D-4	RV20	B-3			
Ø8	E-4					
Q9	E-4	S1	I-1			
Q10	F-5					
Q11	F-4	TP1	B-5			





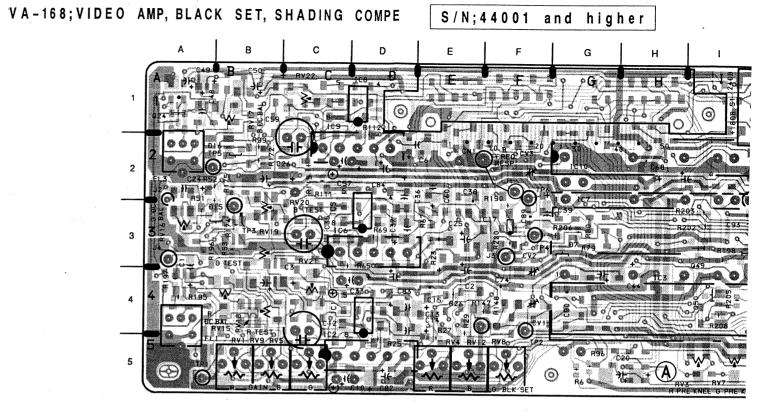


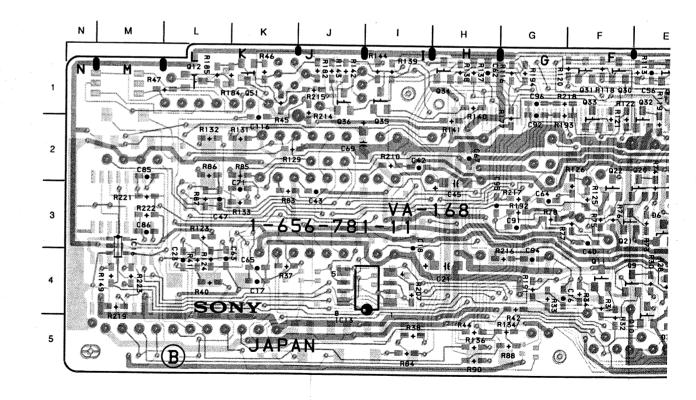
VA-83 -COMPONENT SIDE-



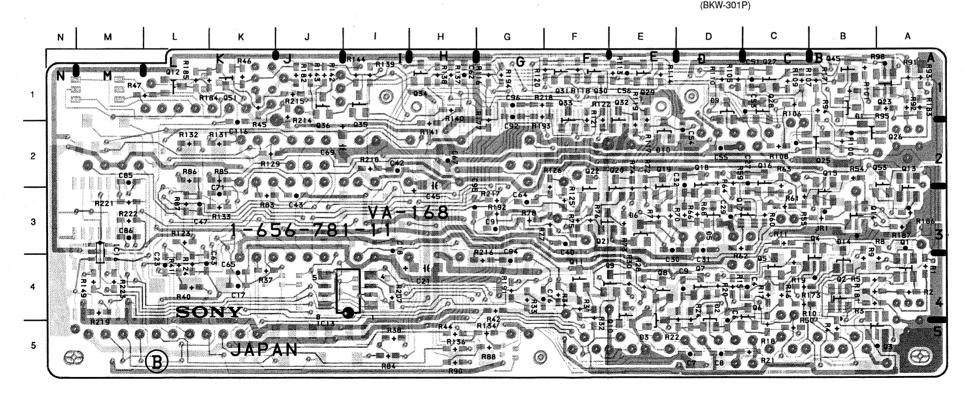
VA-83 $_{\substack{1-629-761-14\\BVW-300AP}}$ -SOLDERING SIDE-

CN1	E-2	Q1	A-3	RV1	B-5
		Q2	B-4	RV2	J-5
CV1	F-4	Q3	E-5	RV3	I - 5
CV2	F-3	Q4	B-3	RV4	E-5
CV3	F-2	Q5	C-4	RV5	B-5
		Q6	C-4	RV6	J-5
DL1	L-1	Q7	D-4	RV7	I-5
		Q8	E-4	RV8	F-5
D1	B-1	Q9	E-4	RV9	B-5
D2	D-4	Q10	E-5	RV10	N-1
D3	E-5	Q11	F-4	RV11	M-1
D5	D-3	Q12	L-1	RV12	E-5
D6	E-3	Q13	A-2	RV15	B-4
D7	G-3	Q14	B-3	RV16	A-3
D9	D-1	Q15	B-2	RV17	B-1
D10	E-2	Q16	C-2	RV18	B-4
D14	B-3	Q17	D-3	RV19	B-3
D15	A-3	Q18	D-2	RV20	C-2
D16	B-2	Q19	E-2	RV21	C-3
		Q20	E-2	RV22	C-1
E1	F-4	Q21	F-3		
		Q22	F-2	S1 .	I-1
FL1	A-5	Q23	A-1	S2	M-1
FL2	K-1	Q24	A-1		
FL3	A-2	Q25	B-2	TP1	A-5
		Q26	A-2	TP2	F-5
IC1	C-4	Q27	C-1	TP3	B-3
IC2	C-4	Q28	C-1	TP4	F-3
IC3	H-4	Q29	E-1	TP5	B-2
IC4	L-3	Q30	F-1	TP6	F-2
IC5	C-3	Q31	F-1		
IC6	C-3	Q32	E-1		
IÇ7	G-2	Q33	F-1		
IC8	D-1	Q34	H-1		
IC9	C-1	Q35	I-2		
IC10	G-2	Q36	J-2		
IC11	M-3	Q45	B-1		
IC12	M-3	Q51	K-1		
IC15	L-5	Q52	K-1		
IC16	M-3	Q53	A-2		





VA-168 -COMPONENT SIDE-1-656-781-11 BVW-300AP (BKW-301P)



VA-168 -SOLDERING SIDE-1-656-781-11 BVW-300AP

Q35

Q36 Q37

Q38 Q41

Q43

Q44

Q46

Q47

Q49 Q50 Q51

Q52 Q53 Q54

Q56

Q58

RV2

RV3

RV4

RV6

R V 10

R V 12

R V 14

TP2 TP3

TP4

CV3

DL2

E 1

I C 1

1 C 4

1 C 5 1 C 6

1 C 7

1 C 8

I C 9

L V 1

Q 1

Q 2

Q9

Q12

Q 1 3

Q15

Q22

Q23 Q24 Q25

Q26

N-2

G - 2

E - 2

E - 1

C - 4

1 - 5

J - 3

B – 3

E - 3

A - 2

A – 1

G - 3

B - 4

M - 4

L - 5

M-5

K – 4

M – 1

N - 2

B - 3

A - 3 A - 3 A - 4

B - 2

E - 4

D - 4

C - 5

C - 3

C - 4

C - 5

D – 4

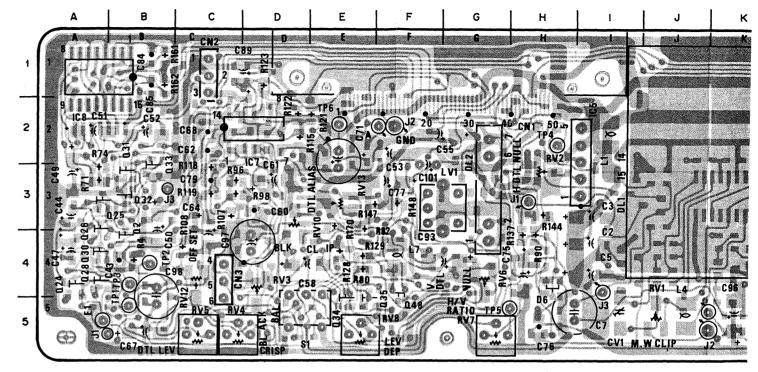
C – 5

B – 4

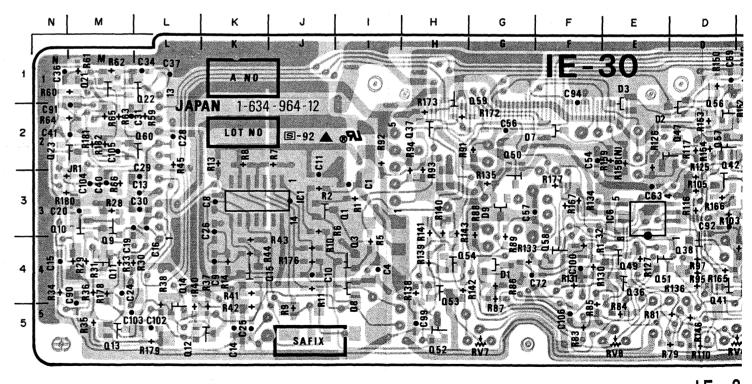
H – 2

G – 5

IE-30AP; IMAGE ENHANCE IE-31; APERTURE

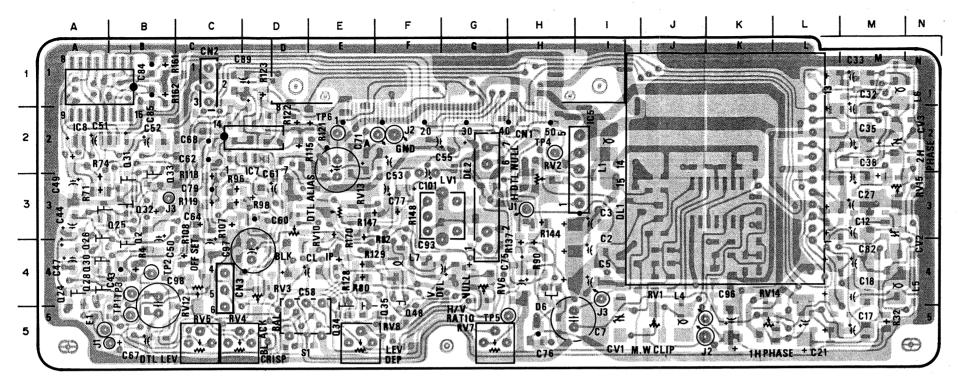


IE - 3

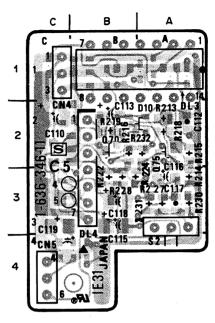


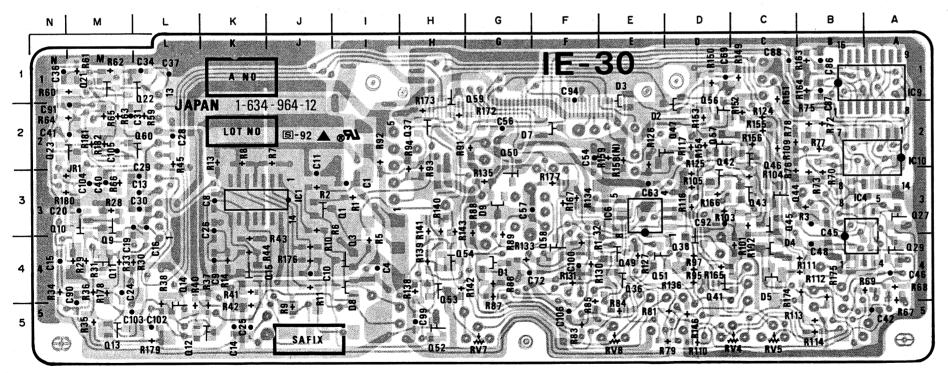
1-634-9 BVW-300

IE-30AP; IMAGE ENHANCE IE-31; APERTURE

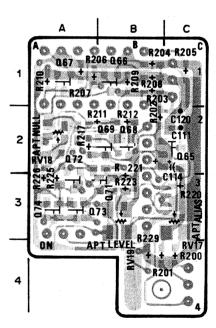


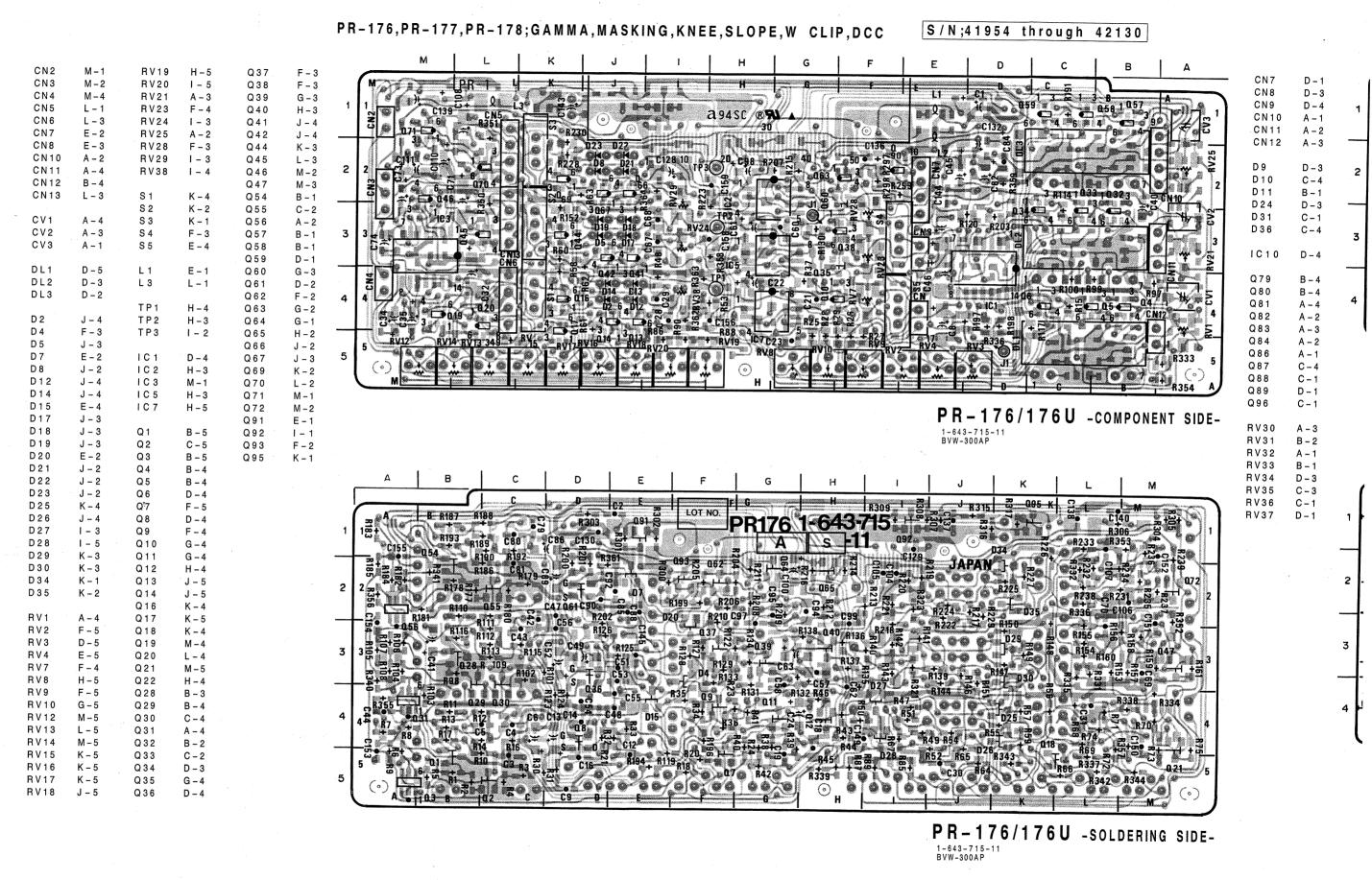
| E - 3 0 A P - COMPONENT SIDE-

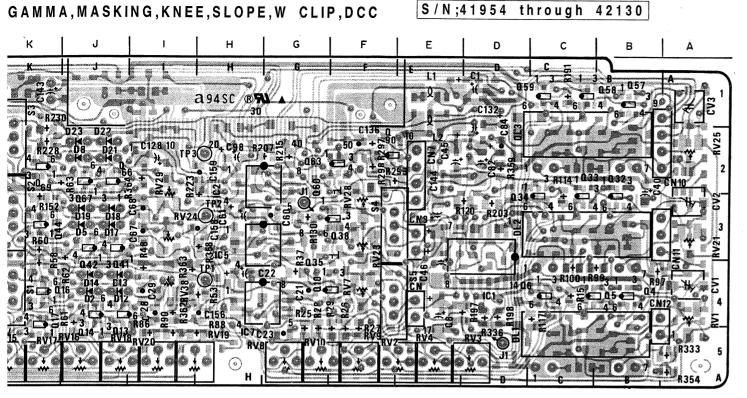




IE-30AP -SOLDERING SIDE-







PR = 1.76/1.76U -COMPONENT SIDE-1-643-715-11 BVW-300AP

CN7

CN8

CN9

CN10

CN11

CN12

D10

D11

D 2 4

D36

IC10

Q80

Q82

Q83

Q84

Q87

Q88

R V 3 0 R V 3 1 R V 3 2

R V 3 3 R V 3 4

R V 35 R V 3 6

R V 3 7

D-3

D - 4

A – 1

A – 2

A - 3

C - 4

B – 1

D - 3

C-1

C - 4

D - 4

B – 4

B – 4

A – 4

A - 2

A – 3

A – 2

C - 4

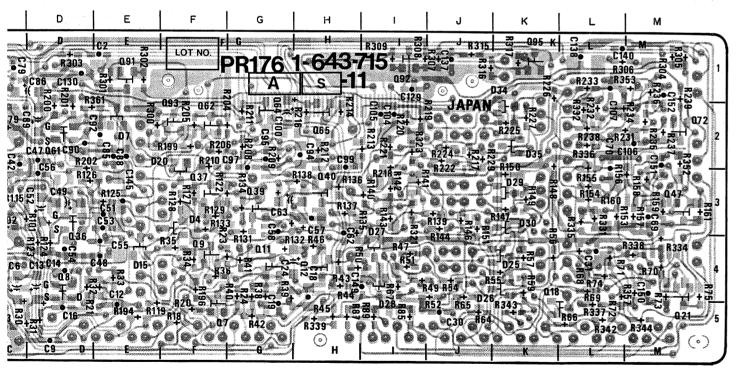
C - 1

A – 1

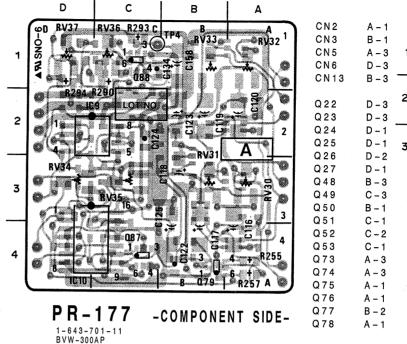
D - 3

C - 1

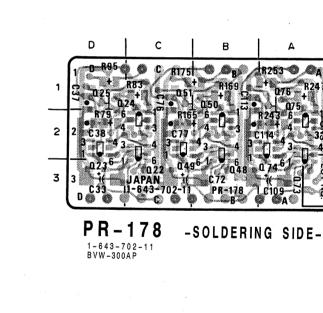
D - 1

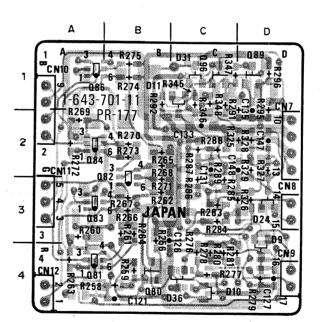


PR-176/176U -SOLDERING SIDE-

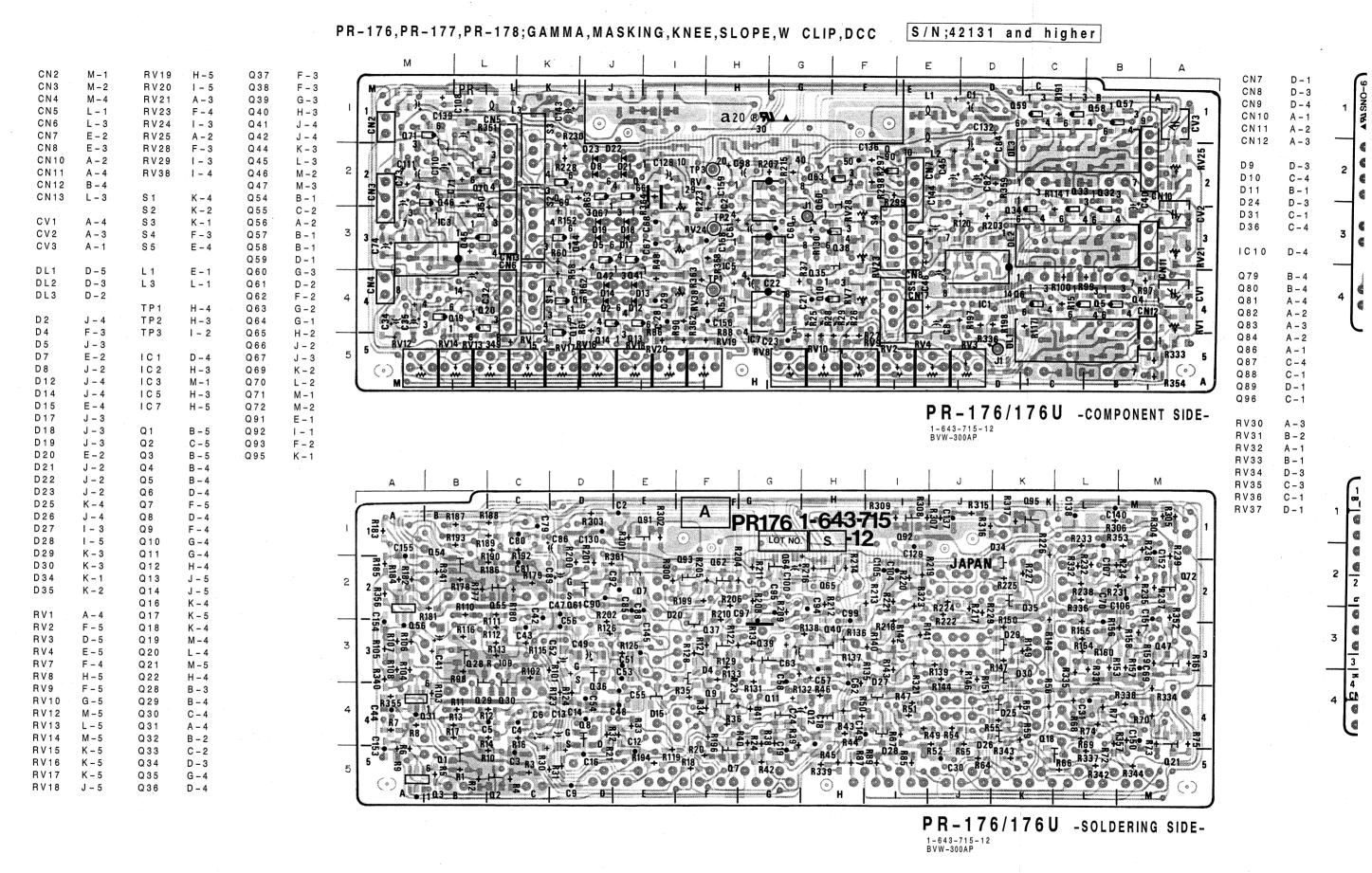


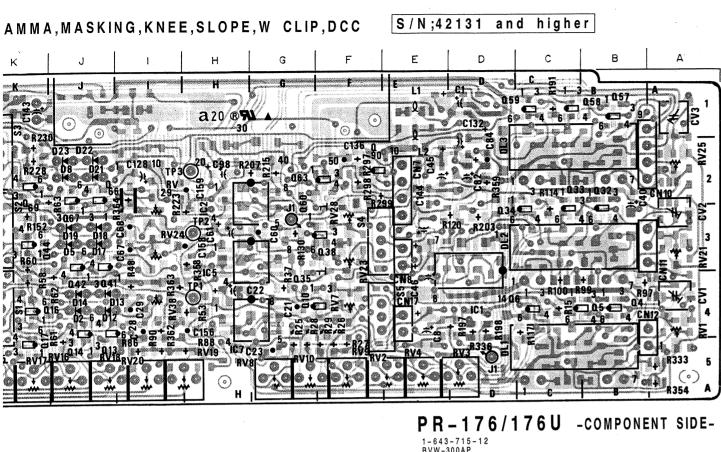
PR-178 -COMPONENT SIDE-

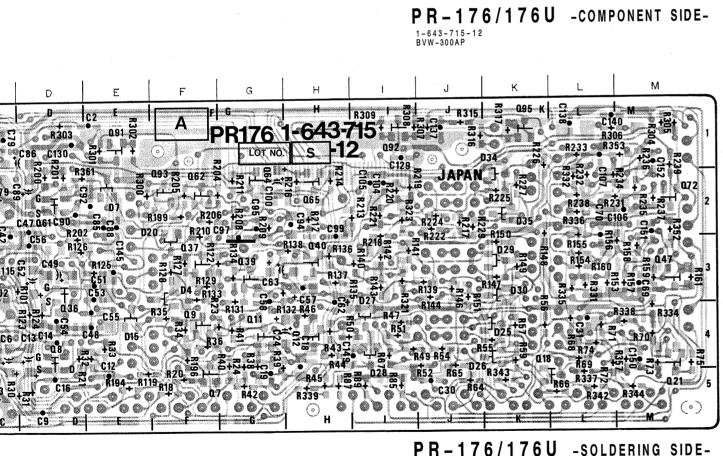


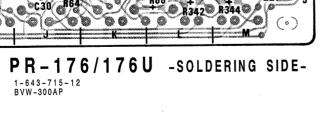


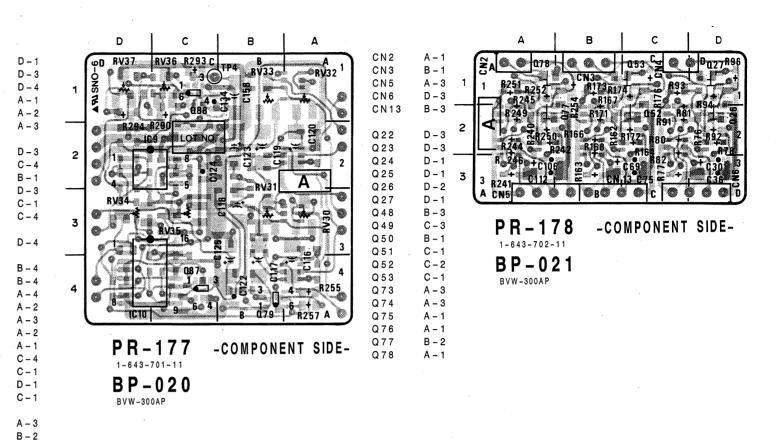
PR-177 -SOLDERING SIDE-

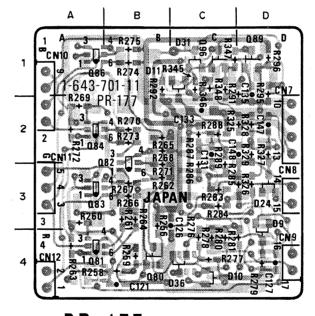












CN7

CN8

CN9

CN10

CN11

CN12

D 9

D 1 0

D 1 1

D 2 4

D 3 1

D36

IC10

0.79

Q80

0.81

Q82

Q83

Q84

Q86

Q87

Q88

Q89

R V 3 0

R V 3 1

R V 3 2 R V 3 3

R V 3 4

R V 3 5

R V 36

R V 3 7

B – 1

D-3

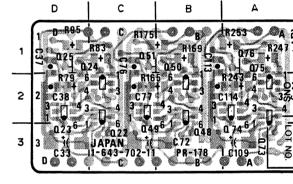
C - 3

C - 1

D – 1

PR-177 -SOLDERING SIDE-1-643-701-11 **BP-020**

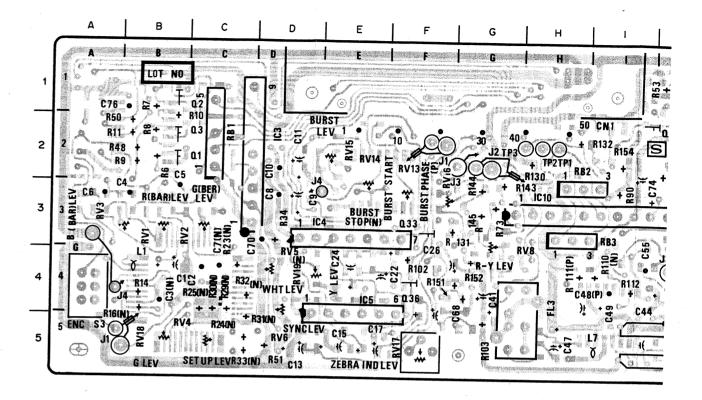
BVW-300AP

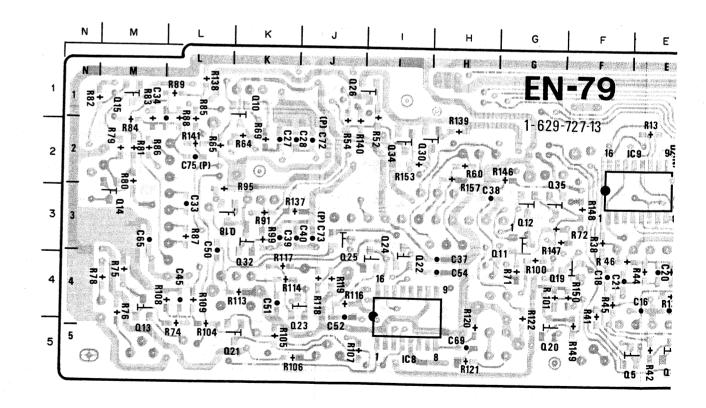


PR-178 -SOLDERING SIDE-1-643-702-11 **BP-021** BVW-300AP

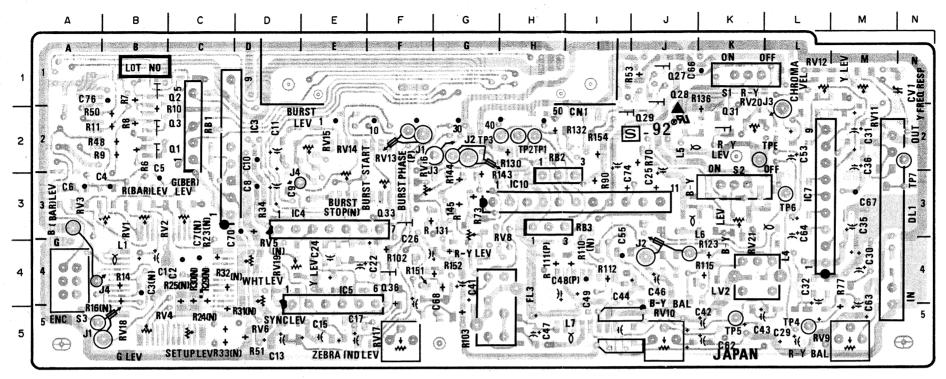
EN-79P;Y/R-Y/B-Y SIGNAL GEN,ENCODER CB GEN

CN1	1 - 2	RB1 RB2	C
CV1	N – 1	RB3	1 -
DL1	N - 3	RV1 RV2	В-
D 2	E - 2	RV3 RV4	B – A – B –
E 1	L – 2	RV5 RV6	D –
FL3	H – 4	RV8 RV9	D - H - L -
C 1 C 2 C 3 C 4 C 5 C 7 C 8 C 9 C 1 0	B - 2 C - 5 D - 2 D - 3 E - 4 L - 3 I - 5 E - 2 H - 3	RV10 RV11 RV12 RV13 RV14 RV15 RV17 RV18 RV19	J - M - L - E - S
L V 2	K – 4	R V 2 1	K – 4
Q1 Q2 Q3 Q4 Q5 Q10 Q11 Q12 Q13 Q14 Q15 Q19 Q20 Q21 Q22 Q23 Q24 Q25 Q26 Q27 Q28 Q29 Q30 Q31 Q31 Q32 Q33 Q34 Q35 Q35 Q36 Q36 Q36 Q36 Q36 Q36 Q36 Q36 Q36 Q36	C-2 C-1 C-2 E-5 E-5 K-1 G-3 M-4 M-3 M-1 L-3 F-4 J-5 I-4 J-5 J-1 J-1 J-2 K-4 F-3 I-2 F-4	S1 S2 S3 TP1 TP2 TP3 TP4 TP5 TP6 TP7	K - 1 L - 3 A - 5 H - 2 G - 2 L - 5 K - 5 L - 3 N - 3

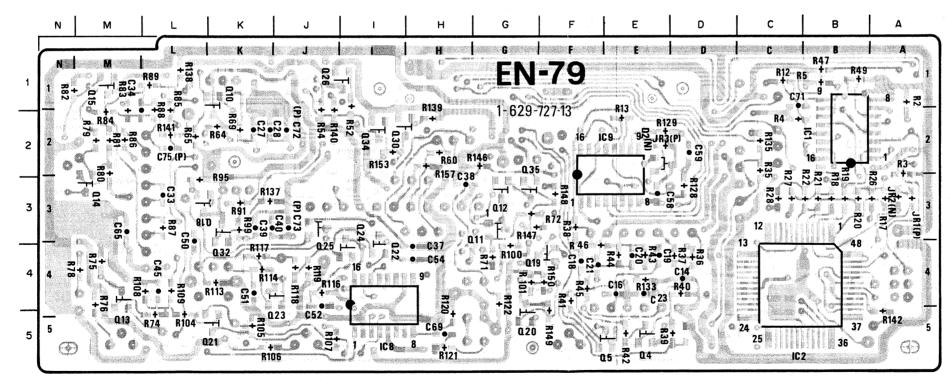




EN-79P;Y/R-Y/B-Y SIGNAL GEN, ENCODER CB GEN



EN-79P -SOLDERING SIDE-1-629-727-14 BVW-300AP

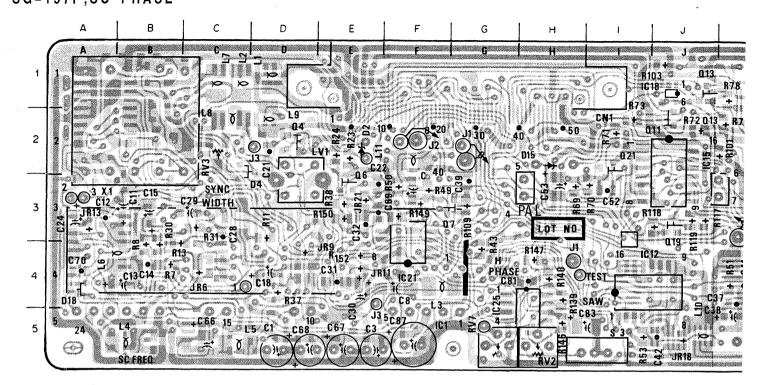


EN-79P -COMPONENT SIDE-

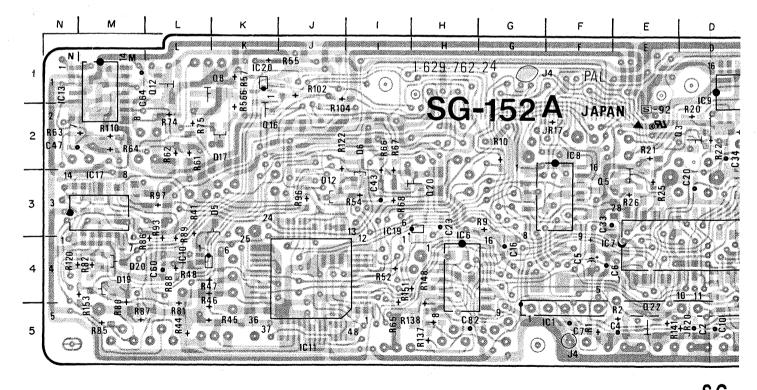
Q 1 6

Q 19

SG-152P;SYNC GEN SG-157P;SC PHASE



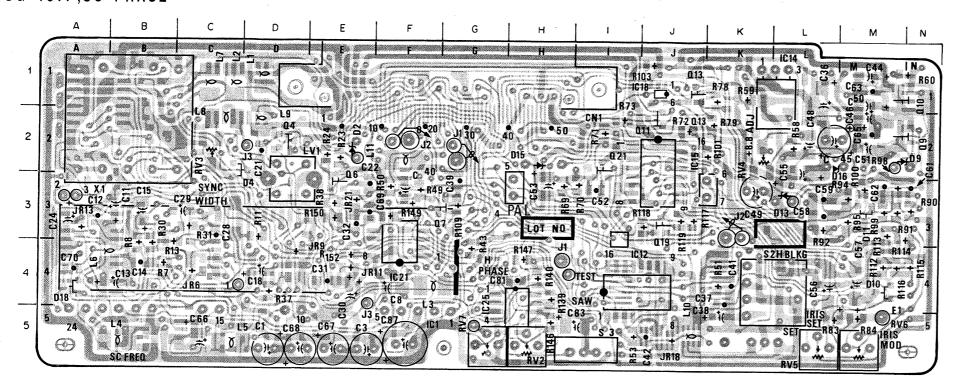
SG-



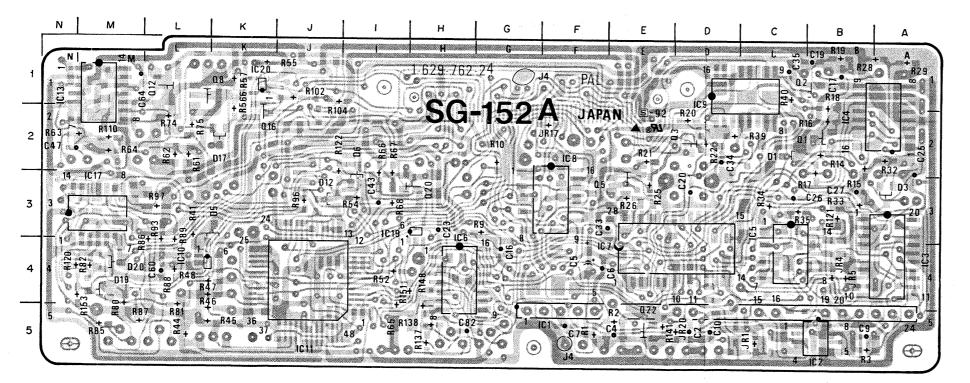
SG-

J - 3 1 - 2 Q 2 1 A - 3E – 5 D - 3 Q 2 2 RV1 C - 5 1 - 2 N - 2 RV2 H – 5 M – 4 RV3 D 1 0 M - 3RV4 K – 4 D12 J - 3 RV5 RV6 L - 3 D13 M – 2 D 16 K – 2 D17 1 - 5 M – 4 F – 5 1 C 1 1 C 3 I C 6 1 C 8 IC 9 IC11 IC12 IC13 IC14 IC15 IC17 IC18 IC19 1 C 2 0 K – 1 G - 4 1 C 2 5 L V 1 C - 1 D - 2 Q10 N – 1 Q12

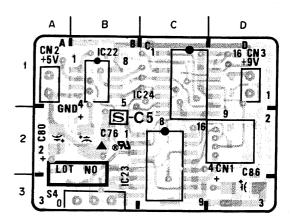
SG-152P;SYNC GEN SG-157P;SC PHASE



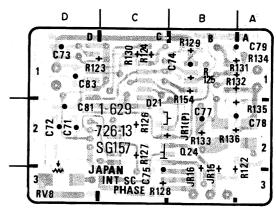
SG-152P -COMPONENT SIDE-1-629-762-25 BVW-300AP



SG-152P -SOLDERING SIDE-1-629-762-25 BVW-300AP

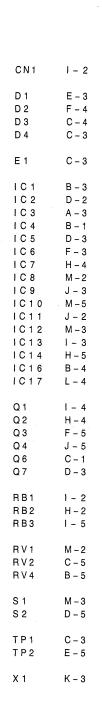


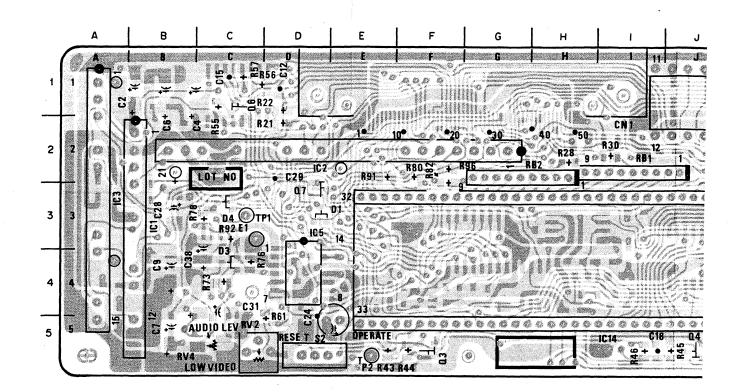
SG-157P -COMPONENT SIDE-1-629-726-13 BVW-300AP

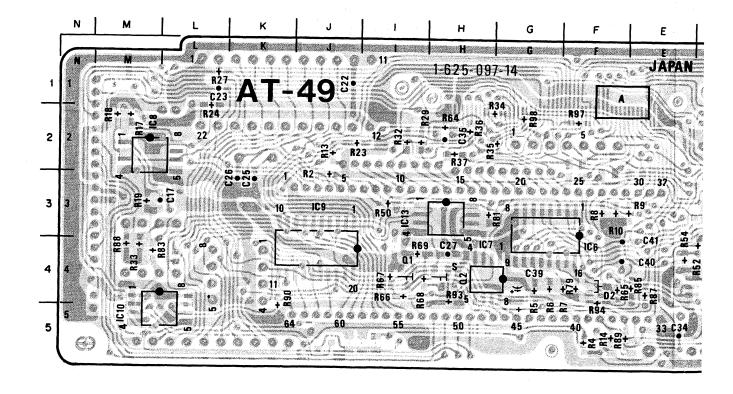


SG-157P -SOLDERING SIDE-1-629-726-13 BVW-300AP

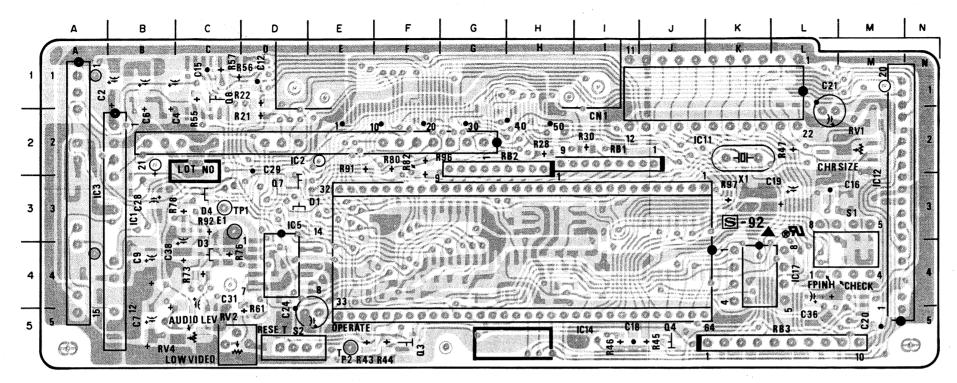
AT-49A/49C; AUTO W/B, CHARA GEN, SYS-CON



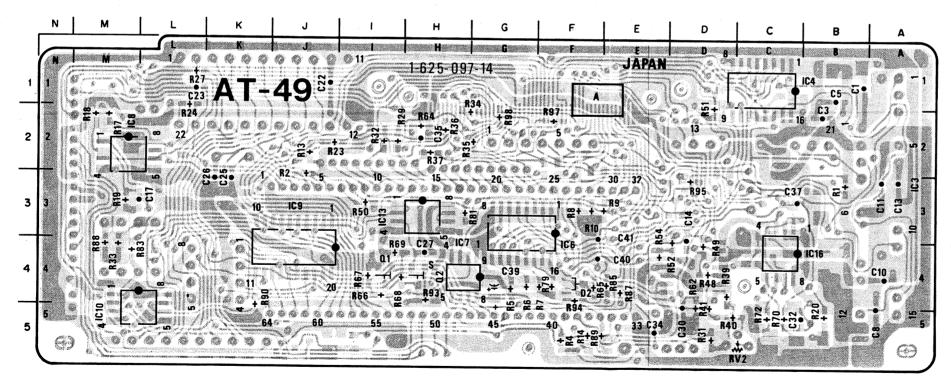




AT-49A/49C; AUTO W/B, CHARA GEN, SYS-CON

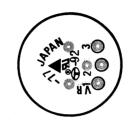


AT-49A/49C -COMPONENT SIDE-1-625-097-15 BVW-300AP

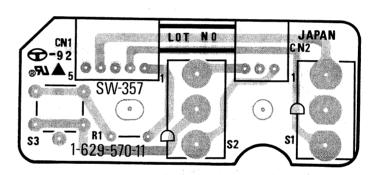


AT-49A/49C -SOLDERING SIDE-1-625-097-15 BVW-300'AP

SW-220;SEWTCH BOARD SW-357B;SWITCH BOARD VR-77;VOLUME CONTROL

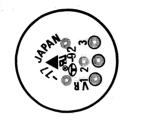


VR-77 -COMPONENT SIDE-

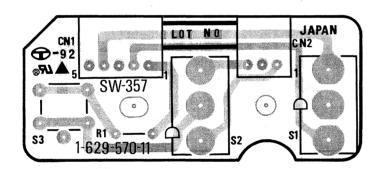


SW-357B -COMPONENT SIDE-BVW-300AP

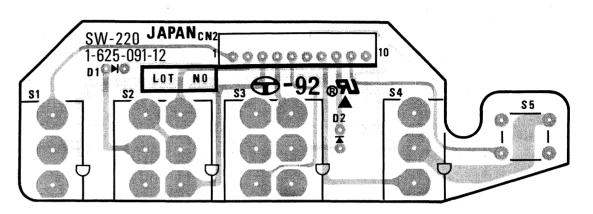
SW-220;SEWTCH BOARD SW-357B;SWITCH BOARD VR-77;VOLUME CONTROL



VR-77 -COMPONENT SIDE-1-625-554-13 BVW-300AP



SW-357B -COMPONENT SIDE-1-629-570-11 BVW-300AP

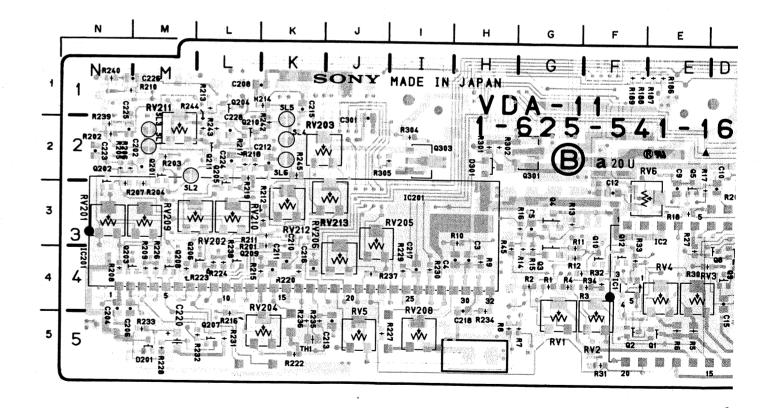


SW-220 -COMPONENT SIDE-1-625-091-12 BVW-300AP

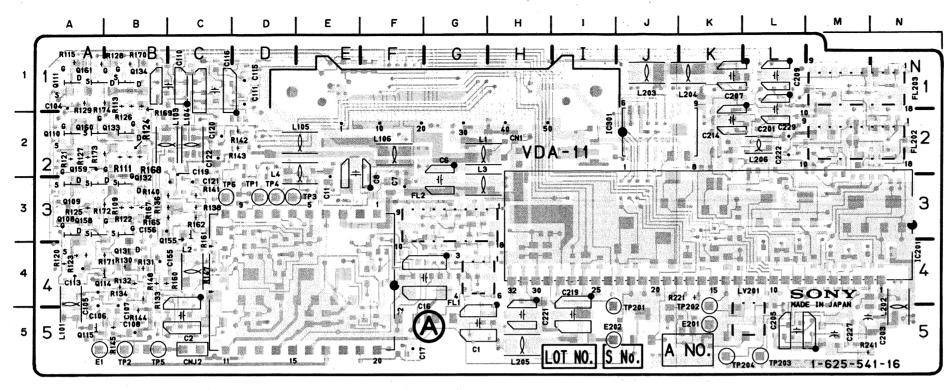
VDA-11P;CTDM AND C-MODULATOR

CN1	H – 2	Q114	A – 4	RV206 K	- 3
CN2	C – 5	Q115	A – 5		- 4
CNJ2	C - 5	Q116	C – 4	3	-3
CNUZ	0-5	Q117 Q118	C – 4 C – 2		- 3 -1
CV1	A – 3	Q110	C-1		- I
CV2	A - 2	Q121	D – 1		- 3
CV3	B – 1	Q122	D – 1		•
C V 4	B – 1	Q123	C - 1	TH1 K	- 5
CV11	B – 3	Q131	B - 4		
C V 12	B – 2	Q132	B – 3		- 3
C V 1 3	B – 1	Q 1 3 3	B – 2		- 5
C V 14	B – 1	Q134	B – 1 C – 3		- 3
D 2 0 1	M – 5	Q 1 5 3 Q 1 5 4	0 − 3 B − 3	TP4 D- TP5 B-	- 3
D 3 0 1	H – 2	Q 155	C-3	TP6 C-	
		Q156	C – 1	TP201 J-	
E 1	A – 5	Q157	B – 2	TP202 K-	
E 2 0 1	K – 5	Q158	A - 3	TP203 L-	- 5
E 2 0 2	1 - 5	Q159	A – 2	TP204 K-	- 5
- 1		Q160	A – 2		
FL1 FL2	G – 4	Q161	A - 1		
FL202	F – 3 N – 2	Q 2 0 1	M - 2		
FL202	N – 2 N – 1	Q 2 0 2 Q 2 0 3	N – 2 N – 4		
		Q 2 0 4	L - 1		
I C 1	F – 4	Q 2 0 5	L – 2		
I C 2	F – 5	Q 2 0 6	M – 4		
I C 3	D – 2	Q 2 0 7	L - 5		
IC 101	C – 2	Q 2 0 8	M – 4		
IC 2 0 1	N – 4	Q 2 0 9	L – 4		
IC301	I - 2	Q 2 1 0	L – 2 L – 2		
LV201	L – 4	Q211 Q301	G – 2	₹.	
	- '	Q303	l – 2		
Q 1	E - 5	#			
Q 2	F - 5	RV1	G – 5		
Q3	G – 4	RV2	F – 5		
Q 4	G - 3	RV3	D – 4		
Q 5 Q 6	E - 2	RV4	E – 4		
Q7 .	C – 2 C – 4	RV5 RV6	J – 4 F – 2		
Q8	D - 4	RV7	D – 4		
Q 9	D - 4	RV101	A – 4		
Q10	F - 3	RV102	A – 3		
Q 1 1	D - 3	RV103	A - 2		
Q12	F - 3	RV104	A – 1		
Q101	A – 5	R V 1 0 5	C – 5		
Q106	A – 4	RV107	C – 4		
Q107 Q108	B – 4 A – 3	RV108	B - 3		
Q109	A - 3	R V 2 0 1 R V 2 0 2	N – 3 L – 3		
Q110	A - 2	R V 2 0 3	K – 2		
Q111	A – 1	R V 2 0 4	K – 4		
Q112	B - 5	R V 2 0 5	1 - 3		

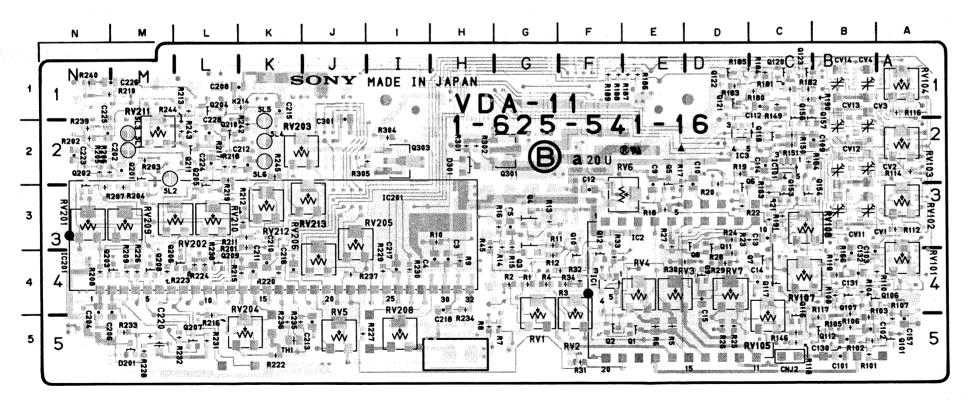
S/N;41954 through 44160



VDA-11P;CTDM AND C-MODULATOR S/N;41954 through 44160

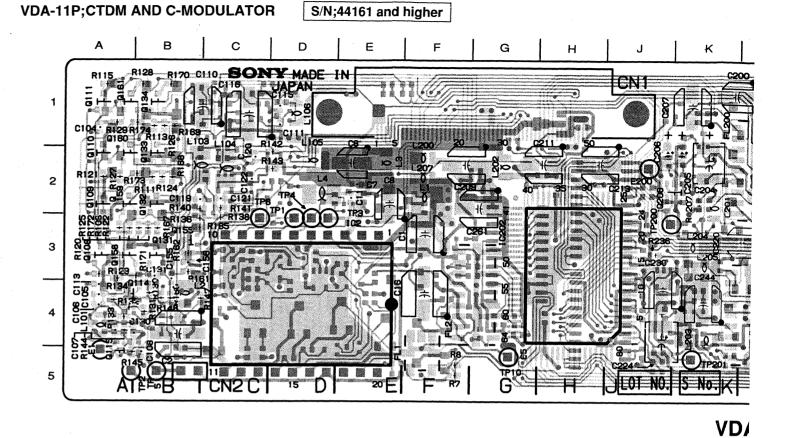


VDA-11P -COMPONENT SIDE-

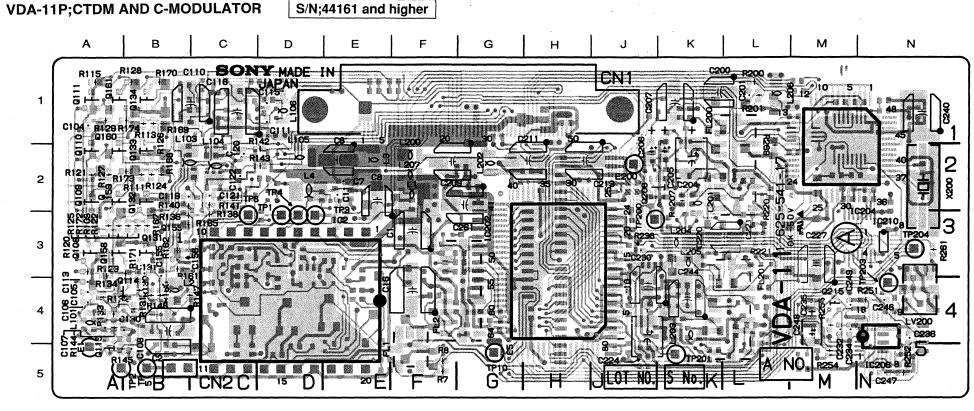


VDA-11P -SOLDERING SIDE-

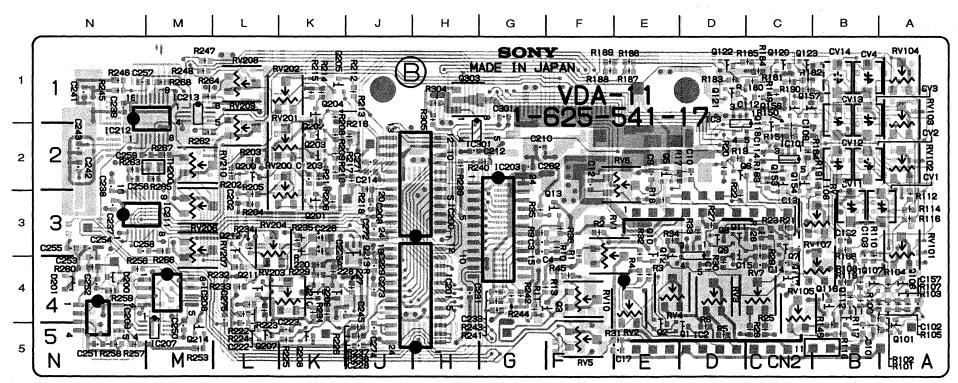
CN1 CN2 CV1 CV2 CV3 CV4 CV11 CV12 CV13 CV14	G-1 B-5 A-3 B-2 B-1 B-3 B-2 B-1	Q117 Q118 Q120 Q121 Q122 Q123 Q131 Q132 Q133 Q134 Q153	C-4 C-2 C-1 D-1 D-1 C-1 B-3 B-2 B-2 B-1 C-2	TP3 TP4 TP5 TP6 TP10 TP200 TP201 TP203 TP204	D-3 D-3 B-5 C-3 G-5 J-3 K-5 N-4 N-3
D200 D201	N-4 N-4	Q154 Q155 Q156	C-2 B-3 C-1	X200	14-2
E1 E200	A-5 J-2	Q157 Q158 Q159	B-1 A-3 A-2		
FL1 FL2 FL200 FL201	F-5 G-4 L-2 L-4	Q160 Q161 Q200 Q201 Q202 Q203	A-2 A-1 L-2 K-3 K-2 K-2		
IC1 IC2 IC3 IC101 IC200 IC201 IC202 IC203 IC204 IC206 IC207 IC208 IC209 IC209	D-4 E-3 D-2 C-3 H-5 H-3 H-2 M-5 N-5 N-4 N-3	Q204 Q205 Q206 Q207 Q208 Q209 Q210 Q211 Q211 Q212 Q213 Q214 Q215 Q303	K-1 K-1 K-2 L-5 K-4 K-4 L-3 J-3 M-5 M-4		
IC210 IC211 IC212 IC213 IC301	N-3 N-3 N-2 M-1 H-2	RV1 RV2 RV3 RV4	F-4 E-4 D-4 E-4		
LV200	N-4	RV5 RV6 RV7	F-5 E-2 C-4		
Q1 Q2 Q3 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q101 Q106 Q107 Q108 Q109 Q111	D-5 F-4 E-2 D-3 D-3 D-3 D-3 E-3 A-4 A-4 A-2 A-1	RV10 RV101 RV102 RV103 RV104 RV105 RV107 RV108 RV200 RV201 RV202 RV203 RV204 RV206 RV207 RV208 RV209 RV209 RV209 RV209	F-4 A-2 A-1 A-4 B-3 K-2 K-1 K-4 L-3 M-3 L-1 L-2		
Q112 Q114	B-4 A-4	TH200	M-2		
Q115 Q116	A-5 B-4	TP1 TP2	D-3 A-5		



VD 1-625-BVW-3



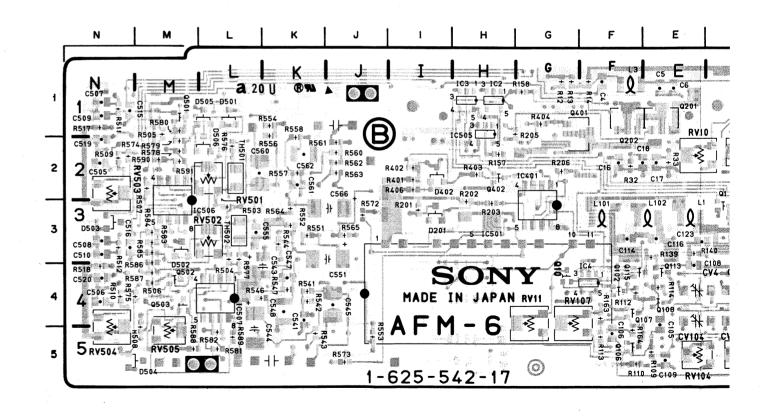
VDA-11P -COMPONENT SIDE-1-625-541-17 BVW-300AP



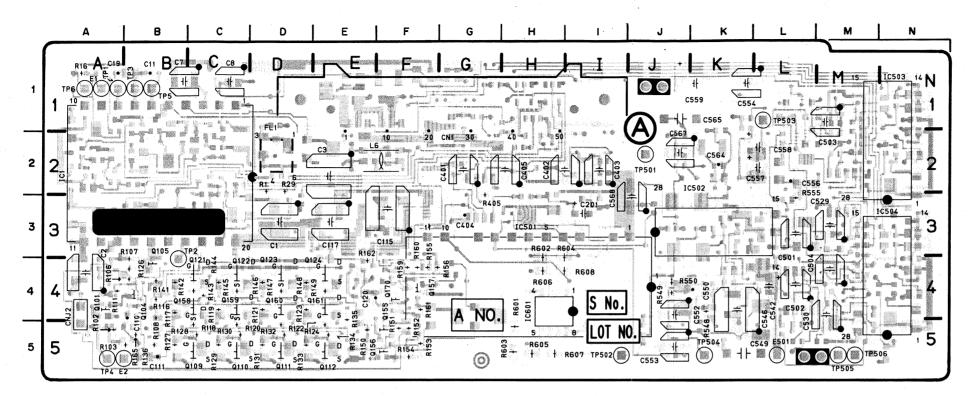
VDA-11P -SOLDERING SIDE-1-625-541-17 BVW-300AP

AFM-6P;Y-MODULATOR,AFM

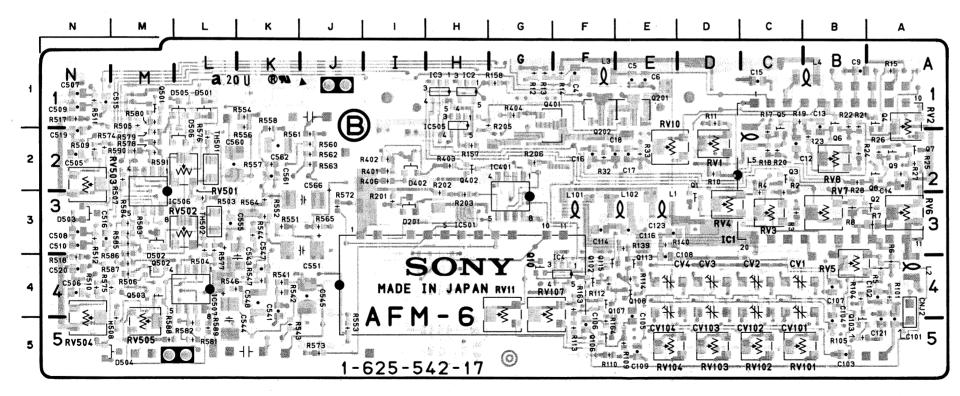
	A	В	С	D	E	F	G	H	1	J
1	R16 A_C19.	C11 BC2	C cs		E		I G			J 1 1 c559
2	2			3 FL1 S R1 R29 F	C3		CNI 30	40 50 50 70 70	C203	C567
3	3 = 2	2107 2105	P2 20 0121p3 0122	CI	R162	C112 03187	R405	1C501 5 	+ c201 S	28 10502
4	4 2000 Tools 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 R14 27	+ 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	24 D + 1	Σ Ω++++	A NO.	R601 10601 + 9009	REOB S No.	8550 2552 2552
5	5 R103	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6	120R132	24	RIS4 E	0	7 5 8 *R605 9 + + +	R607 TP502	C553



AFM-6P;Y-MODULATOR,AFM



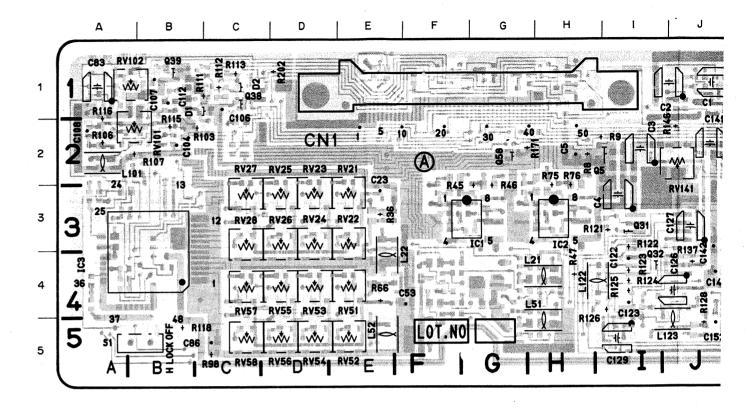
AFM-6P -COMPONENT SIDE-

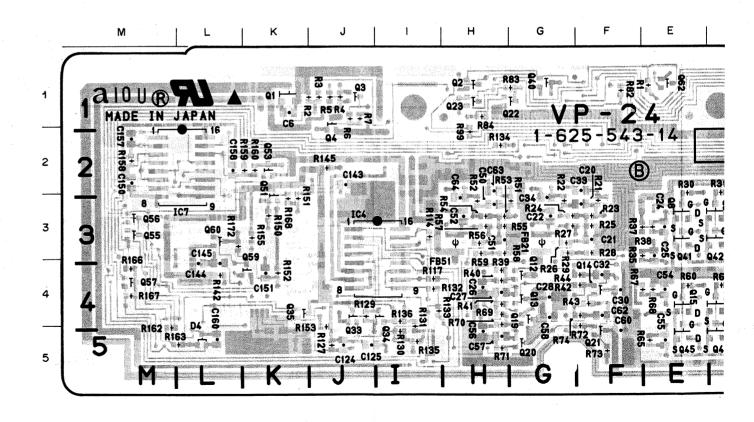


AFM-6P -SOLDERING SIDE-

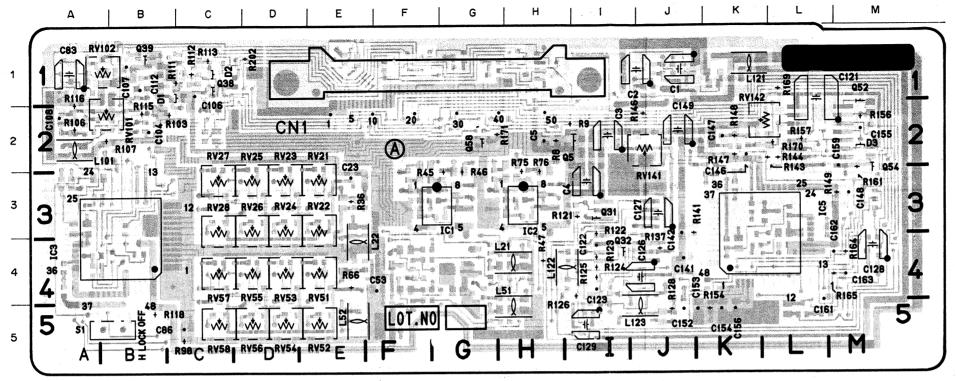
VP-24P; VIDEO PB

CN1	D – 2	Q42	D - 3
D 1	C – 1	Q 4 3 Q 4 4	D - 3 C - 3
D 2 🕝	C – 1	Q 4 5	E - 5
D 3 D 4	M – 2 L – 4	Q 4 6 Q 4 7	D - 5
	C 2	Q 4 8	C - 5 K - 2
FB21	G – 3	Q 5 1 Q 5 2	M – 1
I C 1	G – 3 H – 3	Q 5 3 Q 5 4	K – 2 M – 3
I C 3	A - 4	Q 5 5	M - 3
I C 4 I C 5	J – 3 G – 5	Q 5 6 Q 5 7	M – 3 M – 4
1 C 6	C - 1	Q 5 8	G – 2
1 C 7	L – 3	Q 5 9 Q 6 0	K – 3 L – 3
Q 1	K – 1	Q 6 1	A - 2
Q 2 Q 3	H – 1 A – 4	Q 6 2	E - 1
Q 4	J – 2 I – 2	RV21	E - 2
Q 5 Q 8	I – 2 E – 3	R V 23 R V 25	D - 2 D - 2
Q 9	D – 3 D – 3	R V 27	C - 2
Q10 Q11	D = 3 C = 3	R V 51	D - 4
Q12	G - 4	R V 5 5 R V 5 7	D - 4 C - 4
Q13 Q14	G – 4 F – 4	RV101	B - 2
Q15 Q16	E – 4 D – 4	R V 1 0 2 R V 1 4 1	B - 1 J - 3
Q17	D – 4		0 - 0
Q18 Q19	C – 4 G – 4	S 1	A – 5
Q 2 0	G – 5		
Q 2 1 Q 2 2	F – 5 G – 1		
Q 2 3	H – 1		
Q 2 5 Q 2 6	B – 4 A – 1		
Q27	A – 1		
Q 2 8 Q 2 9	A – 1 B – 1		
Q30	C-1		
Q31 Q32	l – 3 l – 4		
Q33 Q34	J – 5 I – 5		
Q34 Q35	K – 4		
Q36 Q37	B – 2 B – 1		
Q38	C-1		
Q39 Q40	B – 1 G – 1		
Q 4 1	E - 3		

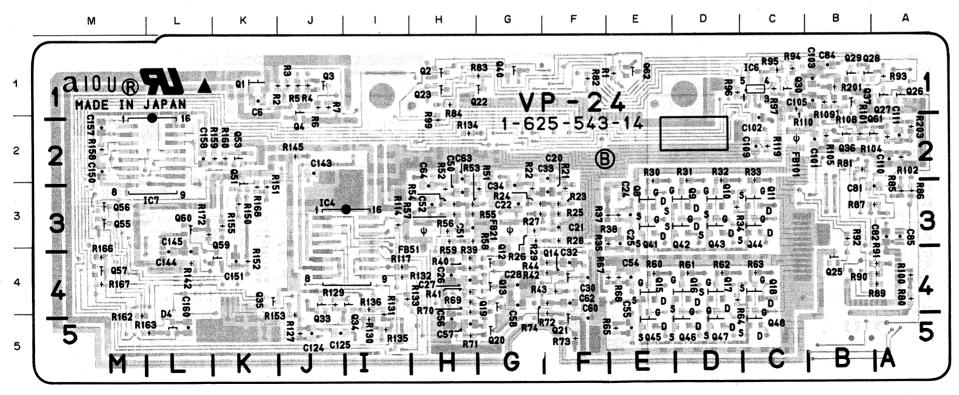




VP-24P; VIDEO PB

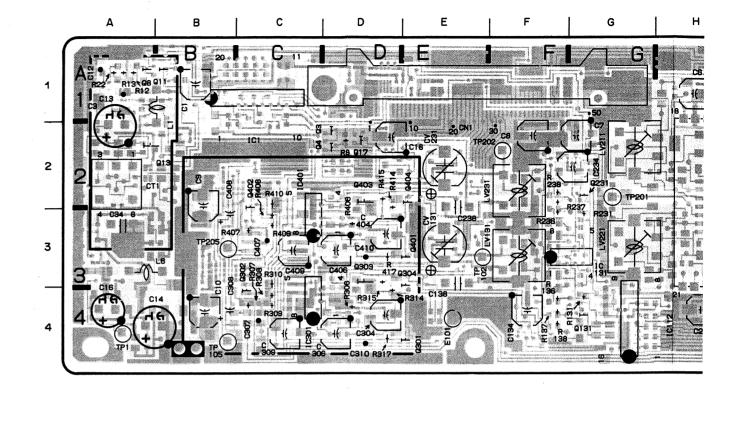


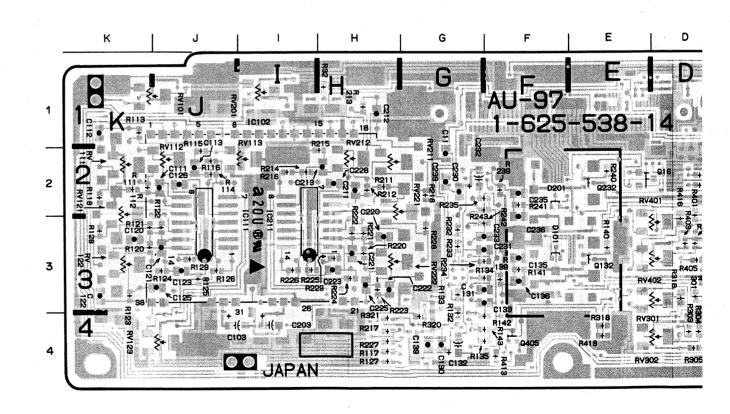
VP-24P -COMPONENT SIDE-



VP-24P -SOLDERING SIDE-1-625-543-14 BVW-300AP

AU-97P; AUDIO REC/PB

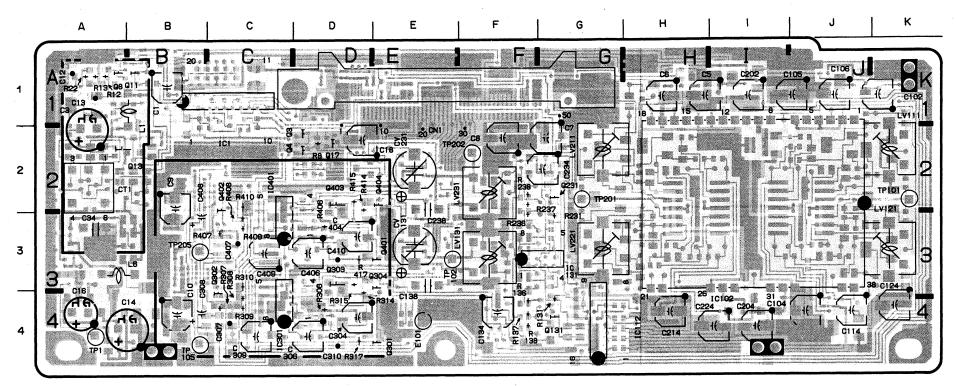




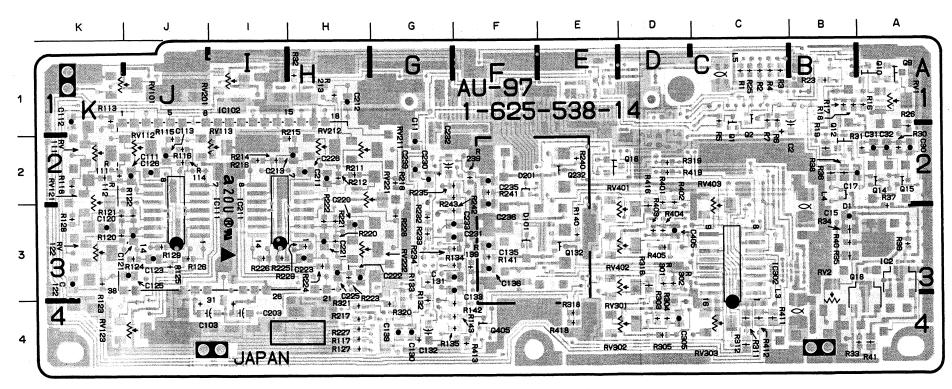
RV2

B - 3

AU-97P; AUDIO REC/PB

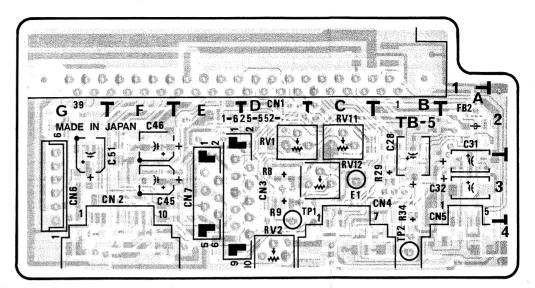


AU-97P -COMPONENT SIDE-1-625-538-14 BVW-300AP

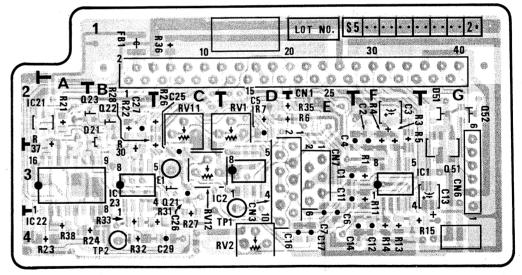


AU-97P -SOLDERING SIDE-BVW-300AP

TB-5;TERMINAL BOARD, AUDIO CONFI



TB-5 - COMPONENT SIDE-BVW-300AP

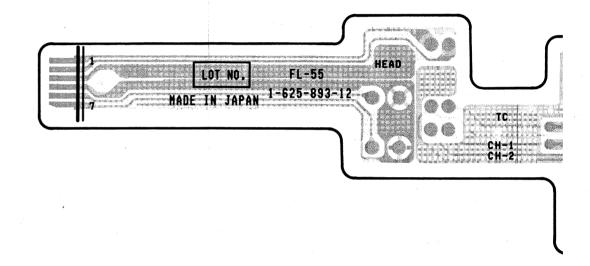


TB-5 - SOLDERING SIDE-

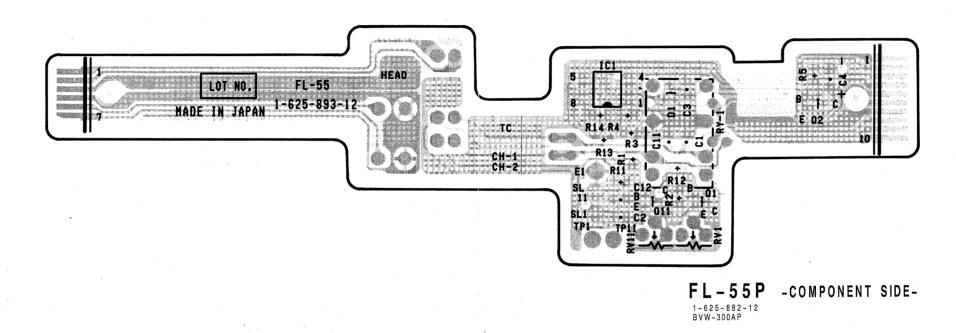
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FL-55P FL-55P

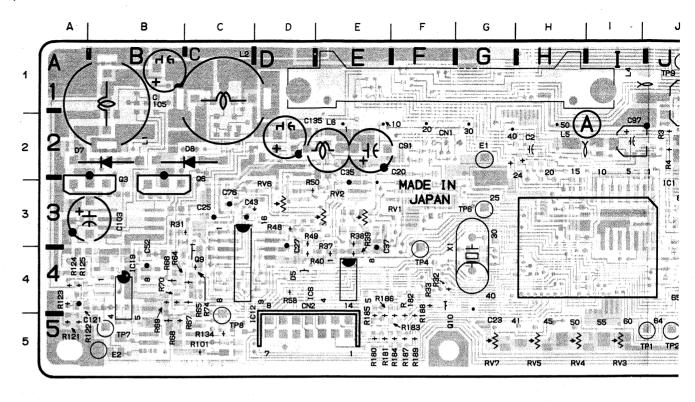
FL-55P; AUDIO HEAD AMP, RELAY BOARD

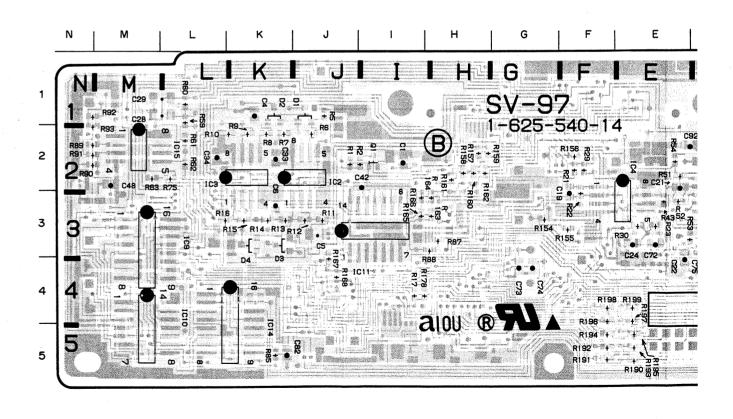


FL-55P; AUDIO HEAD AMP, RELAY BOARD



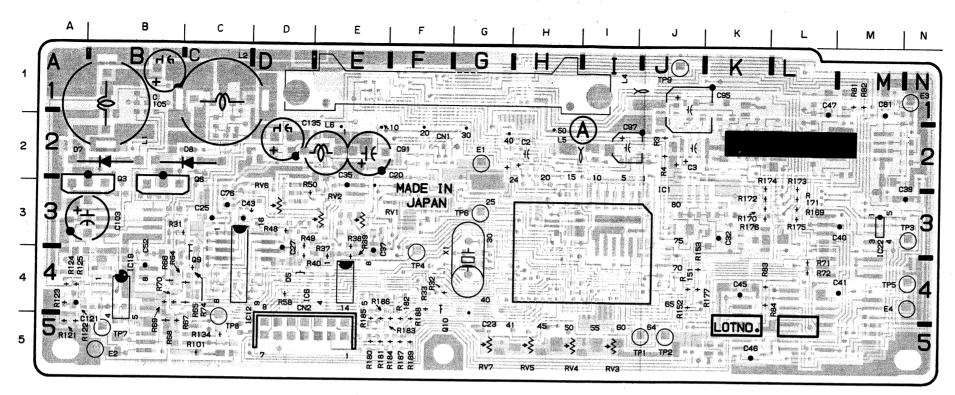
SV-97AP;DRUM/CAPSTAN SERVO



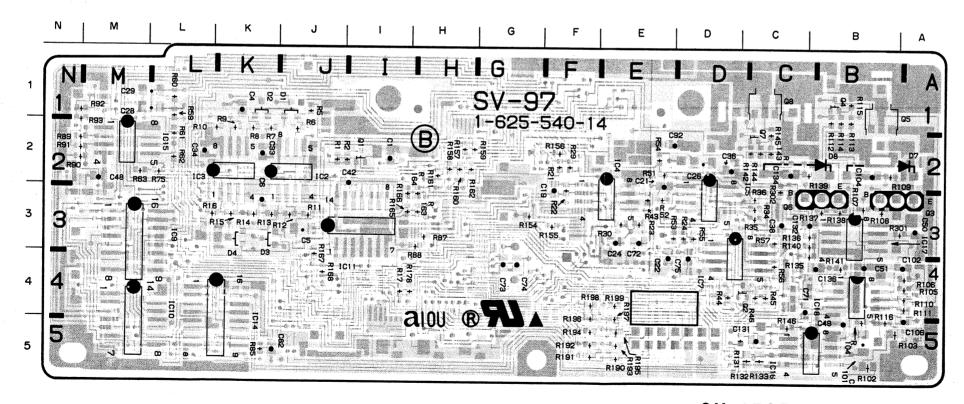


CN1 CN2	F – 2 D – 4	TP3 TP4 TP5	N - 3 F - 4 M - 4
D 1 D 2 D 3	J – 1 K – 1 K – 3	TP6 TP7 TP8	G - 3 B - 5 C - 5
D 4 D 5 D 7 D 8	K - 4 D - 4 A - 2 C - 2	T P 9 X 1	J – 1 F – 3
E 1 E 2 E 3 E 4	G - 2 B - 5 N - 1 N - 4		
IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 7 IC 9 IC 1 0 IC 1 1 IC 1 2 IC 1 4 IC 1 5 IC 1 6 IC 1 7 IC 1 8 IC 1 9 IC 1	J - 3 J - 2 L - 2 E - 2 D - 3 D - 4 D - 4 L - 3 L - 4 J - 4 C - 4 K - 5 L - 2 C - 5 A - 3 B - 4 B - 4 M - 3		
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10	I - 2 D - 4 B - 3 B - 1 C - 3 C - 2 C - 1 C - 4 F - 5		
RV1 RV2 RV3 RV4 RV6 RV7	F - 3 E - 3 I - 5 H - 5 D - 3 G - 5		
TP1 TP2	J - 5 J - 5		

SV-97AP;DRUM/CAPSTAN SERVO



SV-97AP -COMPONENT SIDE-



SV-97AP -SOLDERING SIDE-BVW-300AP

SY-117CP;SYSTEM CONTROL

CN1 G-2 CN2 I-4

D1 L-4

E1 E-1

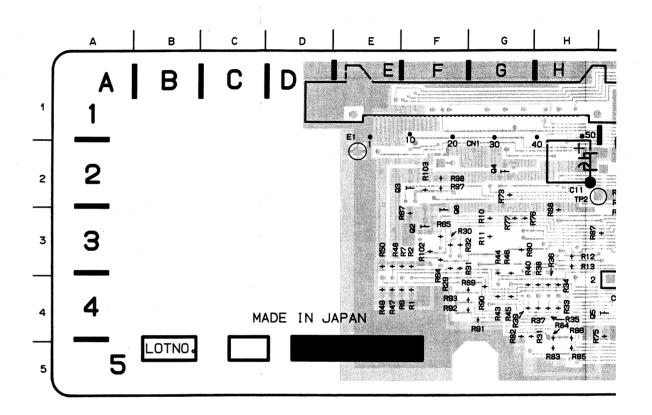
IC1 L-4
IC3 I-4
IC4 M-4
IC5 L-3
IC6 I-3
IC7 I-1

Q1 L-4
Q2 F-3
Q3 F-2
Q4 G-2
Q5 H-4
Q6 I-3
Q7 I-3
Q8 F-3
Q9 J-2

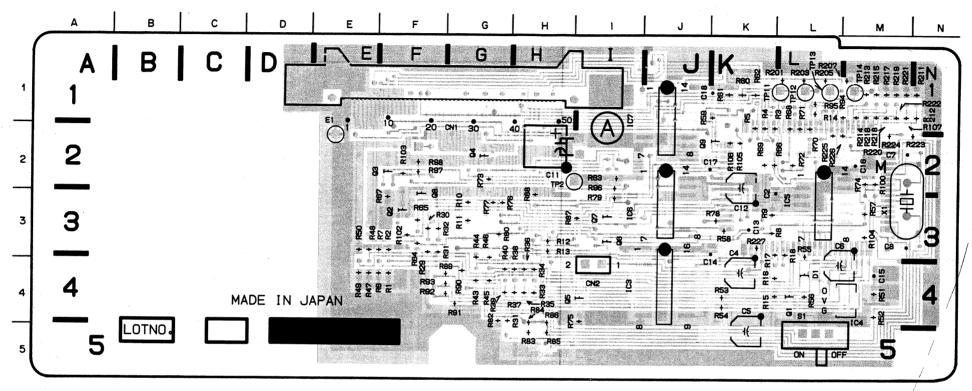
S1 L-4

TP2 H-2
TP11 K-1
TP12 L-1
TP13 L-1
TP14 M-1

X1 M-3

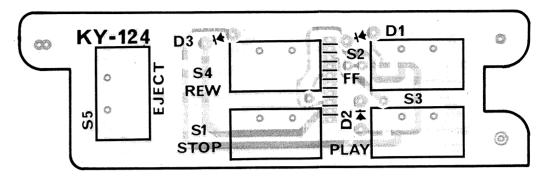


SY-117CP;SYSTEM CONTROL

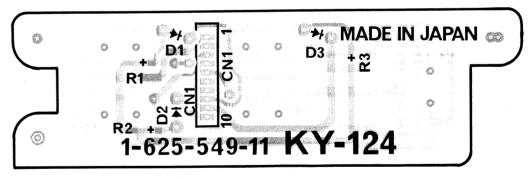


SY-117CP -SOLDERING SIDE-

KY-124;KEY BOARD



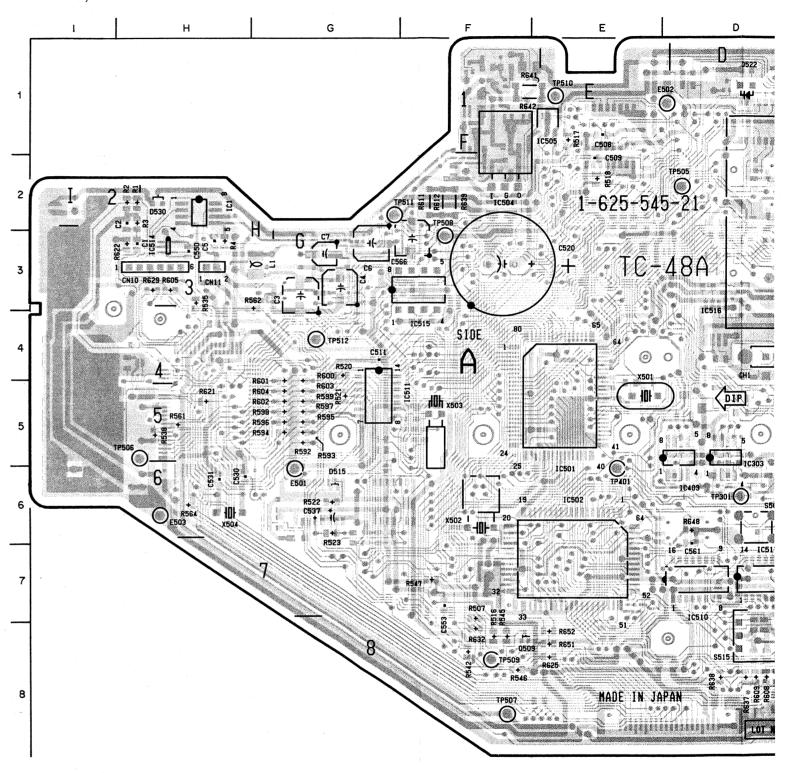
KY-124 -COMPONENT SIDE-BVW-300AP



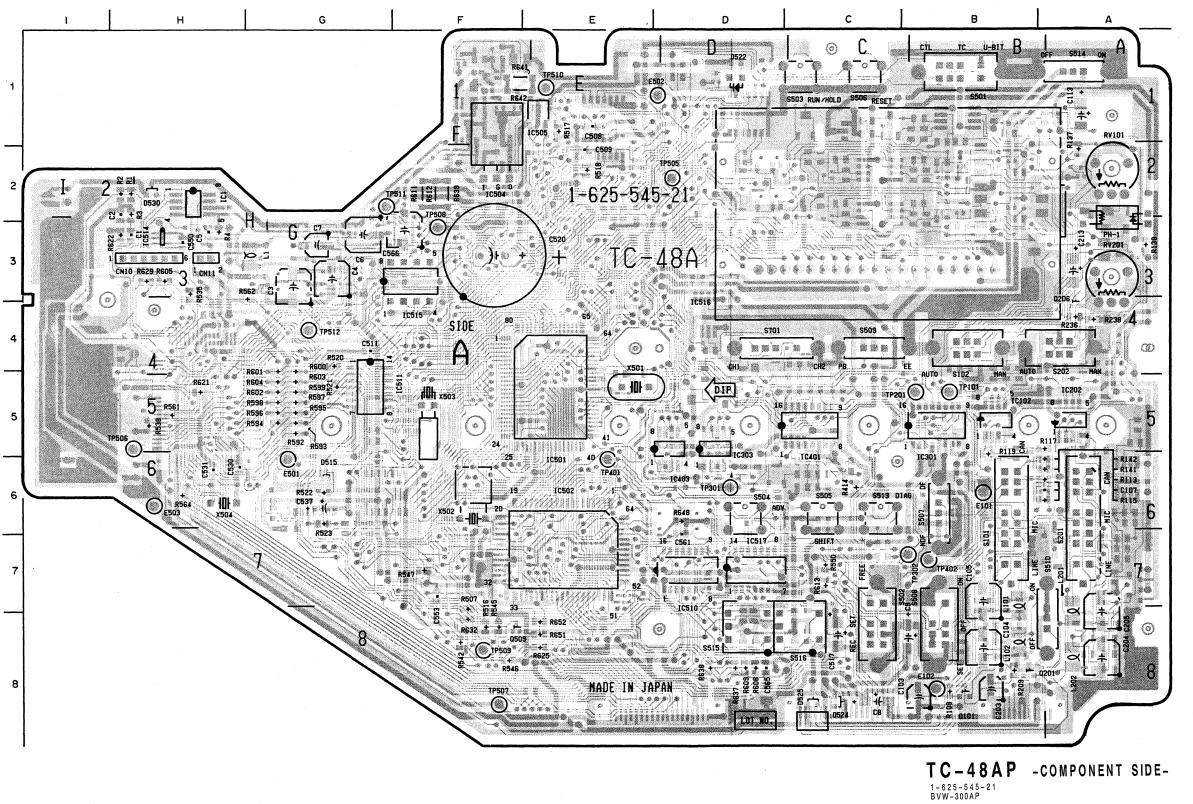
KY-124 -SOLDERING SIDE-BVW-300AP

HP-43;EARPHONE
TC-48AP;TIME CODE,LEVEL CONTROL,MONITOR,SW,INDICTOR
VR-70;VOLUME CONTORL

BT1	1 – 6	IC507	D – 1	R V 7 0 2	C – 1	
D 1 1		IC508	E - 1			
CN1	B - 8	IC509	E - 2	S101	B – 7	
CN2	E - 8	IC510	D – 7	S102	B - 5	
CN3	C - 8	IC511	F - 5	S 1 0 3	C - 2	
CN10	H - 3	IC512	G – 3	S 2 0 1	A - 7	
CN11	H – 3	IC513	G – 6	S 2 0 2	A – 4	
		IC514	H – 3	S 2 0 3	C - 2	
D101	A – 7	IC515	F – 4	S 5 0 1	B – 1	
D102	A – 7	IC516	D – 4	S 5 0 2	C – 7	
D 1 0 3	C - 2	IC517	D – 7	S 5 0 3	C – 1	
D 1 0 4	B – 8	IC518	F – 2	S 5 0 4	D – 6	
D 2 0 1	A – 7	IC 5 1 9	D – 2	S 5 0 5	C – 6	
D 2 0 2	A – 7	IC520	G – 3	S 5 0 6	C – 1	
D 2 0 3	C - 3	IC 5 2 1	G – 4	S 5 0 7	B – 6	
D301	D - 6	1C522	E - 3	S 5 0 8	B – 7	
D 4 0 1	E-5	10523	E-7	S 5 0 9	C – 4	
D508	F - 2	IC701	B – 1	S 5 1 0	A – 7	
D511	E – 4 G – 7	IC702	D – 4 C – 1	S 5 1 1	H – 3	
D 5 1 4		IC703	0-1	S 5 1 3 S 5 1 4	C – 6 A – 1	
D 5 1 5 D 5 2 2	G – 6 D – 1	PH1	A - 3	S 5 1 5	D – 8	
D 5 2 3	D – 1 D – 8	1 11 1	A-3	S 5 1 6	C – 8	
D 5 2 4	C-8	Q101	B – 8	S 5 1 7	D – 7	
D 5 2 5	C - 8	Q101	A – 2	S 5 1 8	D – 7	
D 5 2 6	F - 2	Q103	B - 2	S 7 0 1	D – 4	
D 5 2 7	E-1	Q104	B - 2			
D528	F-1		B - 2	TP101	B – 5	
D529	D - 3	Q106	A – 1	TP201	B – 5	
D530	H - 2	Q107	A – 1	TP301	D - 6	
		Q 2 0 1	B – 8	TP302	B – 7	
E101	B - 6	Q 2 0 2	A - 4	TP401	E – 6	
E102	B – 8	Q 2 0 3	B – 2	TP402	B – 7	
E 5 0.1	G – 6	Q 2 0 4	B – 2	TP505	D – 2	
E502	D – 1	Q 2 0 5	B – 3	TP506	1 – 6	
E503	H – 6	Q206	A – 4	TP507	F – 8	
		Q 2 0 7	A – 3	TP508	F – 3	
IC1	H – 2	Q 5 0 1	E - 1	TP509	F - 8	
IC101	A - 6	Q 5 0 2	C-3	TP510	E-1	
IC102	B - 5	Q 5 0 3	D – 1	TP511	F - 2	
IC103 IC201	C-2	Q 5 0 4 Q 5 0 9	D – 8 F – 8	TP512	G – 4	
1C201	A – 6 A – 5	Q509 Q510	F - 2	X 5 0 1	E – 4	
10202	C-3	Q 5 1 0	F - 1	X 5 0 2	F - 6	
IC301	B – 6	Q 5 1 2	F-1	X 5 0 3	F – 5	
IC302	C - 5	Q701	B – 1	X 5 0 4	H – 6	
IC303	D - 6	Q702	D – 3			
IC401	C - 6					
IC403	D - 6	R V 1 0 1	A - 1			
IC501	E - 6	R V 2 0 1	A - 3			
IC502	E - 6	R V 3 0 1	D – 4			
IC 5 0 3	H – 4	R V 3 0 2	D - 5			
IC504	F – 2	R V 4 0 1	C - 6			
IC505	E – 1	R V 4 0 2	D – 5			
IC506	F – 6	R V 7 0 1	C – 1			

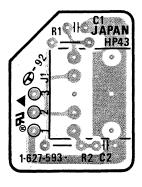


HP-43;EARPHONE TC-48AP; TIME CODE, LEVEL CONTROL, MONITOR, SW, INDICTOR VR-70; VOLUME CONTORL



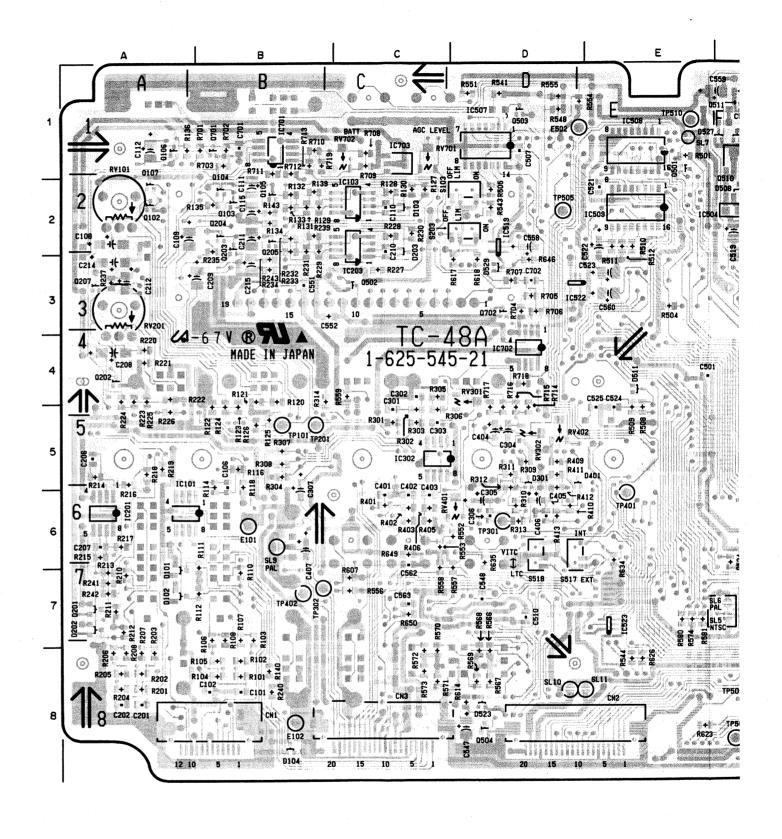
RV3 1-625-553-13 VA -70 JAPAN

VR-70 -COMPONENT SIDE-1-625-553-13 BVW-300AP

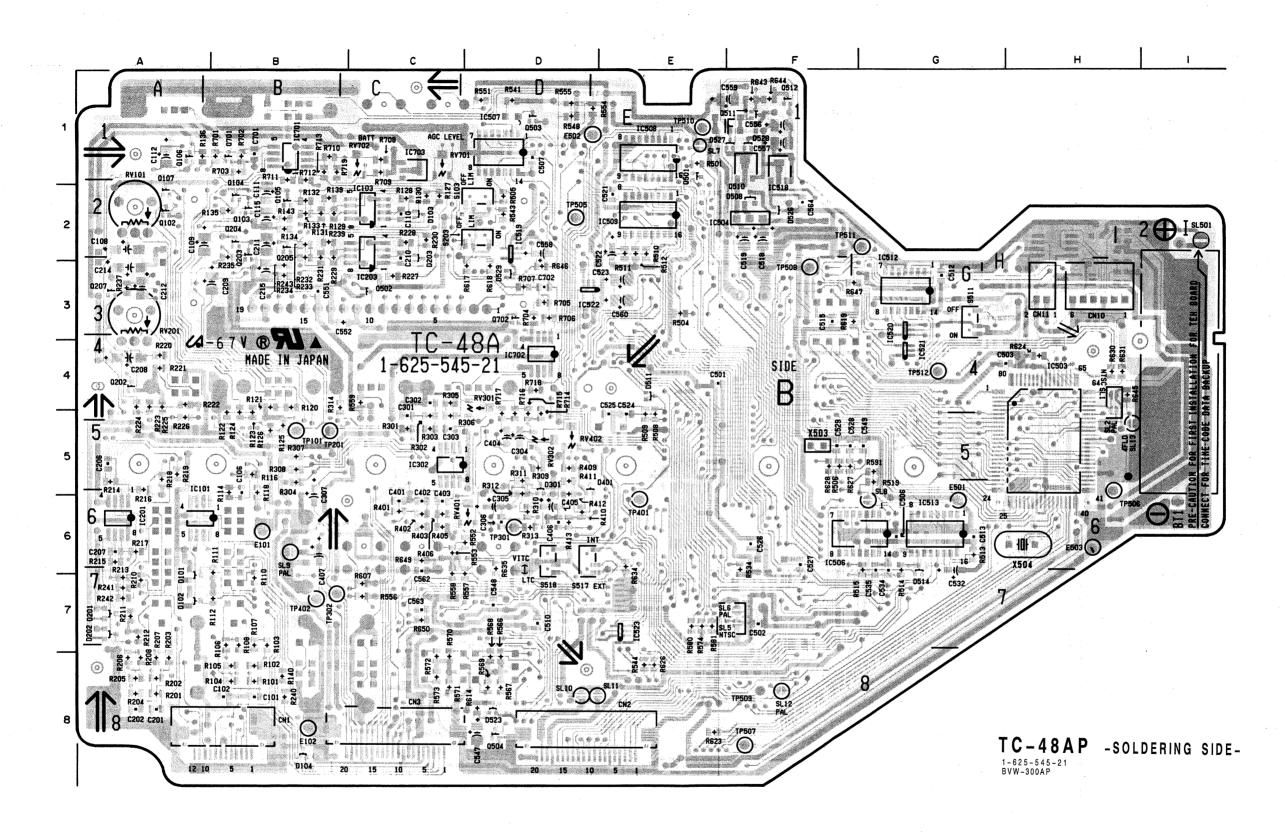


HP-43 -COMPONENT SIDE-1-627-593-12 BVW-300AP

B T 1	1 - 6	IC507	D – 1	R V 7 0 2	C - 1
		IC508	E – 1		
CN1	B – 8	IC 5 0 9	E – 2	S101	B - 7
CN2	E - 8	IÇ510	D – 7	S102	B - 5
CN3	C-8	IC511	F - 5	S103	C – 2 A – 7
CN10	H-3	IC512	G – 3	S 2 0 1 S 2 0 2	A – 7 A – 4
CN11	H – 3	IC 5 1 3 IC 5 1 4	G – 6 H – 3	\$202	C-2
D 1 0 1	A – 7	IC 5 1 5	F – 4	S 5 0 1	B – 1
D 1 0 2	A - 7	IC 5 1 6	D – 4	S 5 0 2	C-7
D103	C-2	IC517	D – 7	S 5 0 3	C - 1
D 1 0 4	B - 8	IC518	F – 2	S 5 0 4	D - 6
D 2 0 1	A – 7	IC519	D – 2	S 5 0 5	C - 6
D 2 0 2	A – 7	IC520	G – 3	S 5 0 6	C – 1
D 2 0 3	C - 3	IC521	G – 4	S 5 0 7	B – 6
D 3 0 1	D – 6	IC522	E – 3	S 5 0 8	B – 7
D 4 0 1	E – 5	IC 5 2 3		S 5 0 9	C – 4
D 5 0 8	F – 2	IC701	B – 1	S 5 1 0	A – 7
D 5 1 1	E - 4	IC702	D – 4	S 5 1 1	H – 3
D 5 1 4	G – 7	IC703	C – 1	S 5 1 3 S 5 1 4	C – 6 A – 1
D 5 1 5	G – 6 D – 1	PH1	A - 3	S 5 1 4 S 5 1 5	D - 8
D 5 2 3	D – 8		A-0	S 5 1 6	C - 8
D 5 2 4	C - 8	Q101	B – 8	S 5 1 7	D - 7
D 5 2 5	C – 8	Q102	A – 2	S 5 1 8	D – 7
D 5 2 6	F – 2	Q103	B – 2	S701	D - 4
D 5 2 7	E – 1	Q104	B – 2		
D 5 2 8	F – 1	Q105	B – 2	TP101	B – 5
D529	D – 3	Q106	A – 1	TP201	B – 5
D530	H – 2	Q107	A – 1	TP301	D - 6
	Б. С	Q 2 0 1	B – 8	TP302	B-7
E101	B – 6 B – 8	Q 2 0 2 Q 2 0 3	A – 4 B – 2	TP401 TP402	E – 6 B – 7
E 1 0 2 E 5 0 1	G-6	Q 2 0 4	B - 2	TP505	D – 2
E 5 0 2	D – 1	Q 2 0 5	B – 3	TP506	1 – 6
E 5 0 3	H – 6	Q 2 0 6	A – 4	TP507	F – 8
		Q 2 0 7	A – 3	TP508	F - 3
I C 1	H - 2	Q 5 0 1	E – 1	TP509	F - 8
IC101	A – 6	Q502	C – 3	TP510	E – 1
IC102	B – 5	Q503	D – 1	TP511	F – 2
IC103	C-2	Q 5 0 4	D – 8	TP512	G – 4
IC 2 0 1	A – 6	Q 5 0 9	F - 8	V = 0.1	E 4
1C202	A – 5	Q 5 1 0 Q 5 1 1	F – 2 F – 1	X 5 0 1 X 5 0 2	E – 4 F – 6
IC203 IC301	C – 3 B – 6	Q511	F – 1	X 5 0 3	F - 5
1C302	C – 5	Q701	B – 1	X 5 0 4	
1C303	D – 6	Q702	D – 3		
IC401	C - 6				
IC403	D - 6	R V 1 0 1	A – 1		
IC501	E - 6	R V 2 0 1	A – 3		
1 C 5 0 2	E – 6	R V 3 0 1	D – 4		
1C503	H – 4	R V 3 0 2	D – 5		
IC504	F – 2	R V 4 0 1	C-6		
1C505	E – 1 F – 6	R V 4 0 2 R V 7 0 1	D – 5 C – 1		
IC506	F - 0	11 4 / 0 1	0 - 1		

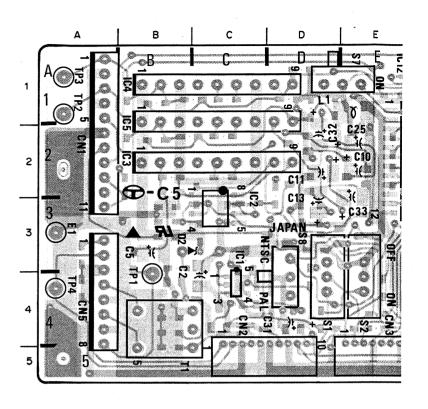


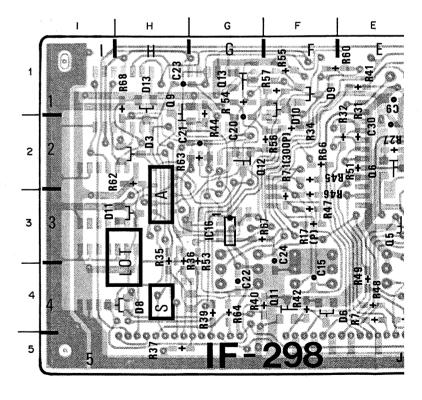
TC-48AP; TIME CODE, LEVEL CONTROL, MONITOR, SW, INDICTOR



IF-298AP;INTERFACE

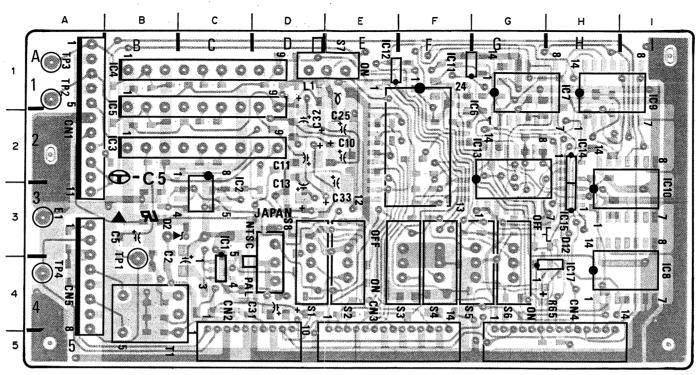
CN1 CN2 CN3 CN4 CN5	A - 2 C - 4 E - 4 H - 4 A - 4	S 6 S 7 S 8	G - E - D -
D 1 D 2 D 3	D – 4 B – 3 H – 2	T P 2 T P 3 T P 4	A - A - A -
D 6 D 7 D 8 D 9 D 1 0 D 1 1 D 1 2 D 1 3	E - 4 C - 3 H - 4 F - 1 F - 2 I - 3 H - 3	Т1	B -
E 1	A - 3		
C 1	C-3 C-3 B-2 B-1 B-1 G-1 H-1 I-4 I-1 I-3 F-1 E-1 G-2 H-2 H-3 G-3 H-4		
Q1 Q2 Q4 Q5 Q6 Q7 Q8 Q9 Q11 Q12 Q13	C-4 C-3 B-4 E-3 E-3 D-2 D-2 H-1 F-4 G-2 G-1		
S 1 S 2 S 3 S 4 S 5	D - 4 E - 4 F - 5 F - 5 G - 4		



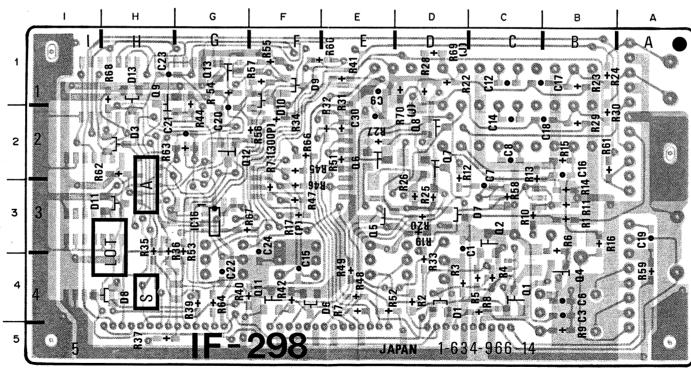


IF-298AP;INTERFACE

CI CI	N 1 N 2 N 3 N 4 N 5	A - 2 C - 4 E - 4 H - 4 A - 4	S 6 S 7 S 8	G - E - D -
D :	2 3 6 7 8 9	D-4 B-3 H-2 E-4 C-3 H-4 F-1 F-2 I-3 H-3	TP2 TP3 TP4 T1	A - A - B -
E ·	1	A – 3		
	2 2 3 4 5 5 6 6 7 8 8 9 1 1 0 1 1 1 2 1 1 3 1 1 4 1 1 5 1 1 6	C-3 C-3 B-2 B-1 B-1 G-1 H-1 I-4 I-1 G-2 H-2 H-3 G-3 H-4		
	2 4 5 6 7 3 9 1 1	C-4 C-3 B-4 E-3 E-3 D-2 D-2 H-1 F-4 G-2 G-1		
S 2 S 3 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5	2 3 4	D - 4 E - 4 F - 5 F - 5 G - 4		

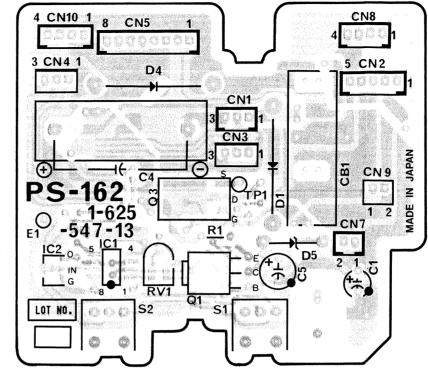


IF-298AP -COMPONENT SIDE-



IF-298AP -SOLDERING SIDE-

PS-162; POWER DISTRIBUTOR

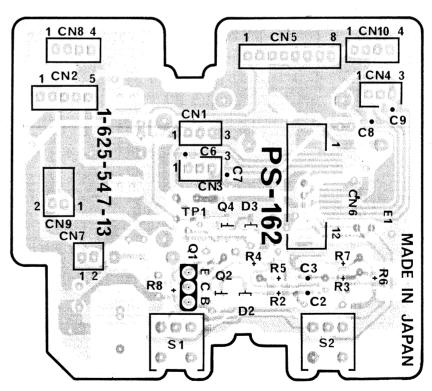




DUS-297
-COMPONENT SIDE-

1-630-774-11 BVW-300AP

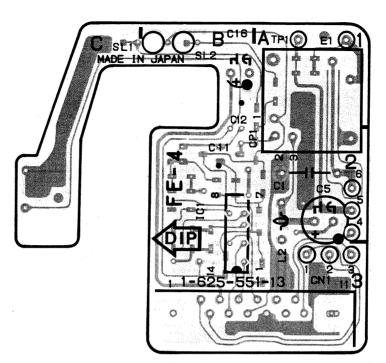
PS-162 - COMPONENT SIDE-



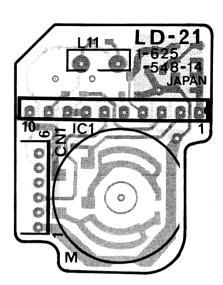
PS-162 - SOLDERING SIDE-

	1.
)

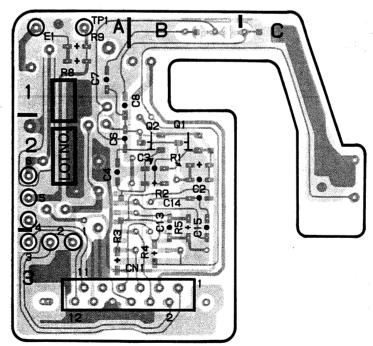
FE-4; FULL ERASE LD-21; LOADING SR-40; MECHANICAL POSITION SENSOR CN-400; INTERFACE CONNECTOR



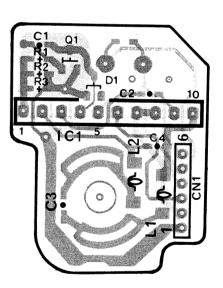
FE-4 - COMPONENT SIDE-



LD-21 -SOLDERING SIDE-BVW-300AP -SOLDERING SIDE-

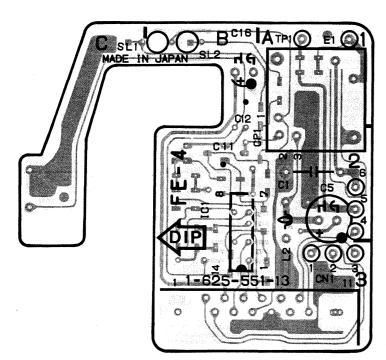


FE-4 -**SOLDERING SIDE**-1-625-551-13,14 BVW-300AP

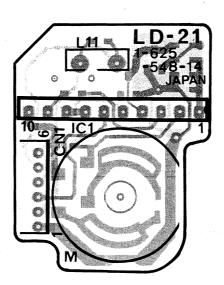


LD-21 -CONPONENT SIDE-BVW-300AP -CONPONENT SIDE-

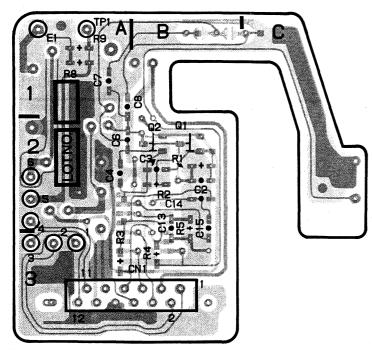
FE-4; FULL ERASE LD-21; LOADING SR-40; MECHANICAL POSITION SENSOR CN-400; INTERFACE CONNECTOR



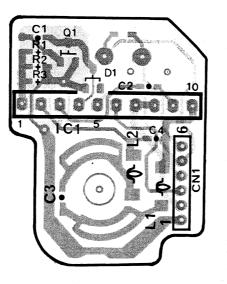
FE-4 - COMPONENT SIDE-



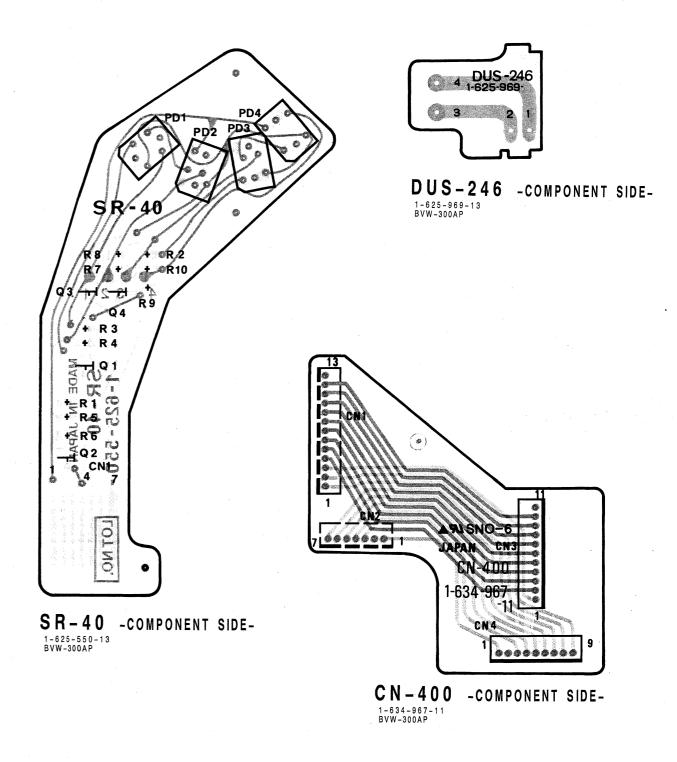
LD-21 -SOLDERING SIDE-BVW-300AP -SOLDERING SIDE-



FE-4 -SOLDERING SIDE-

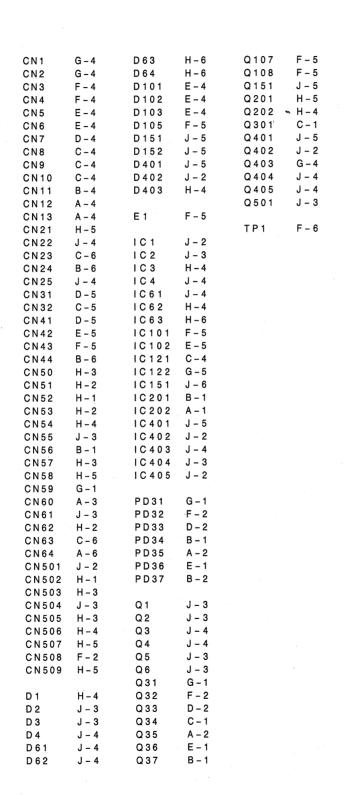


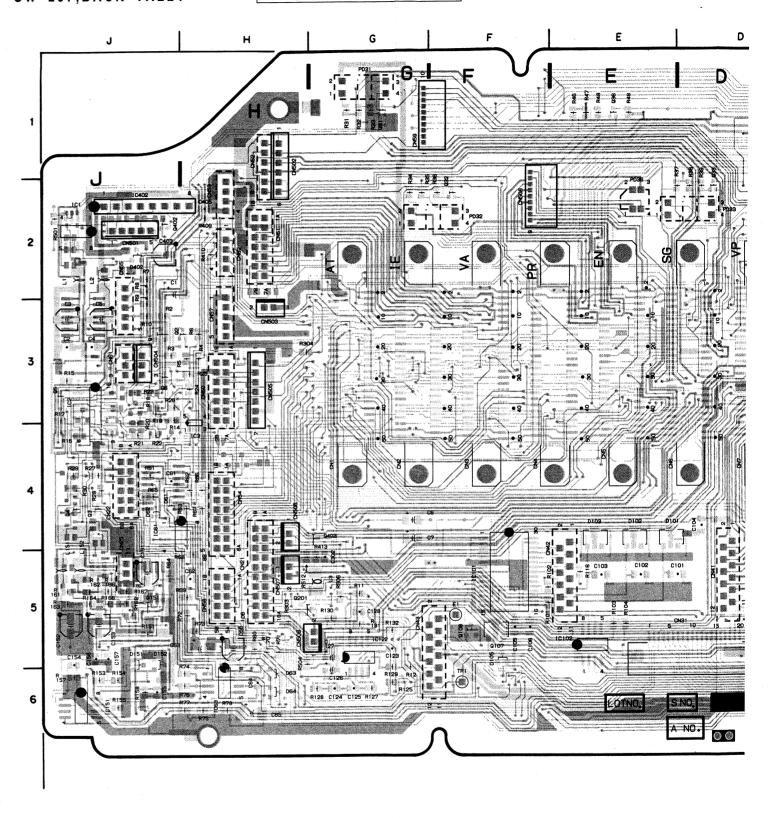
LD-21 -CONPONENT SIDE-BVW-300AP -CONPONENT SIDE-



MB-317AP; MOTHER BOARD SW-297;BACK TALLY

S/N;42131 and higher

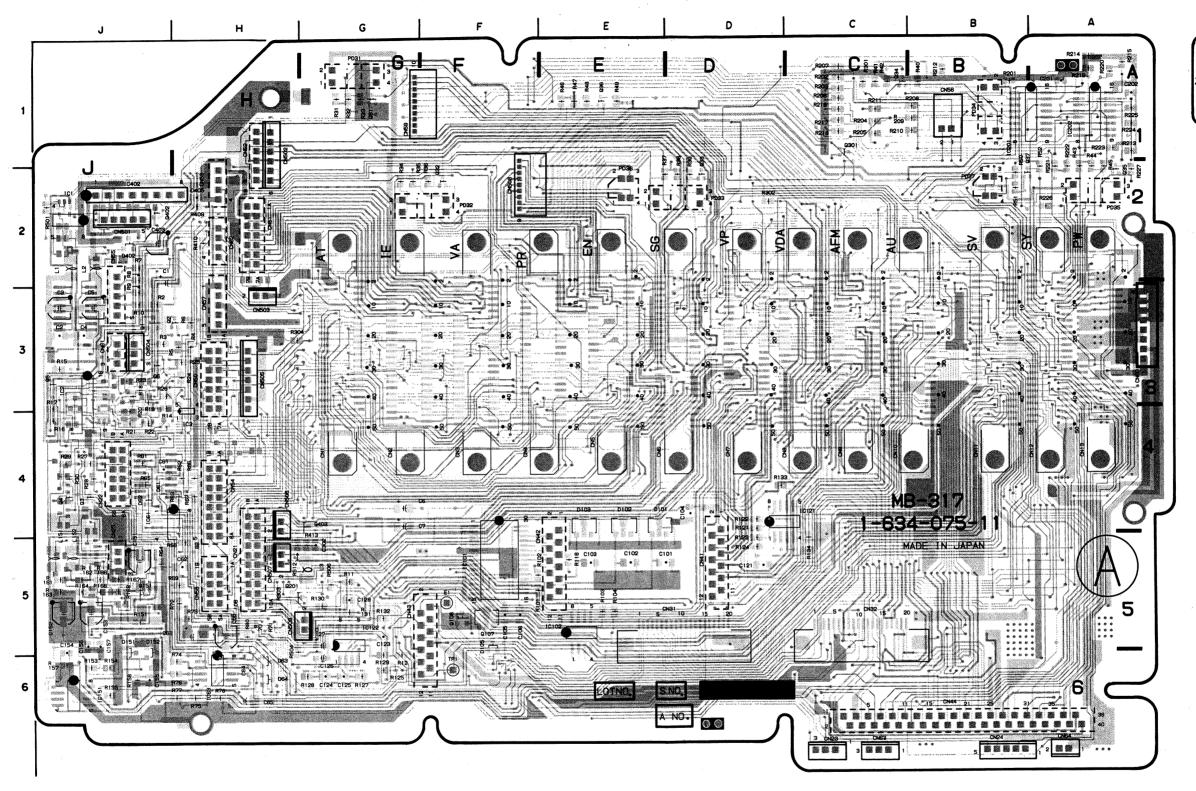




SW-291-COMPONENT SIDE1-634-555-14
BVW-300AP

MB-317AP; MOTHER BOARD SW-297; BACK TALLY

S/N;42131 and higher

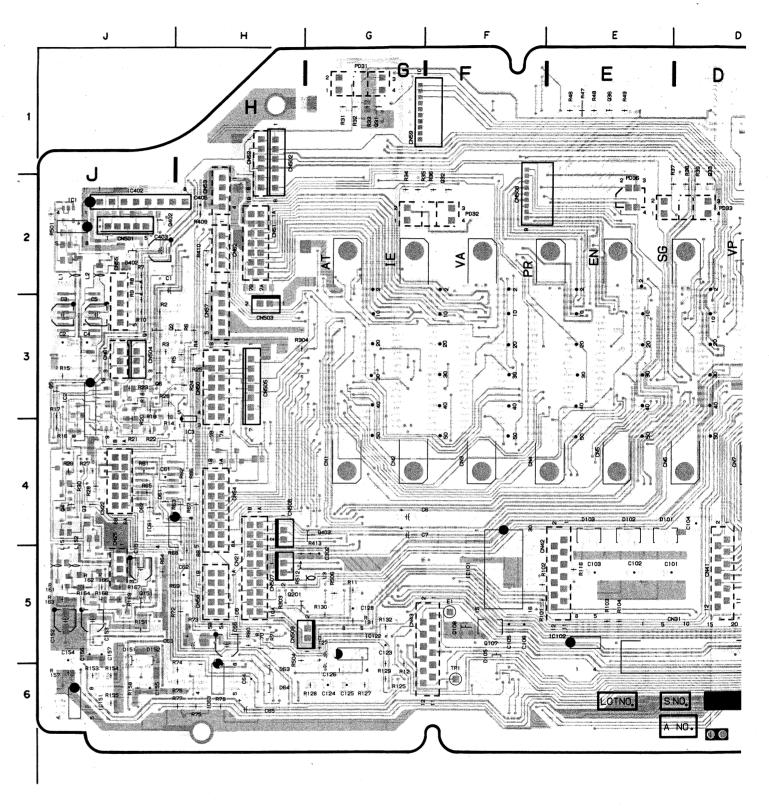


 $\begin{array}{ll} \textbf{MB-317AP} & -\texttt{COMPONENT SIDE-} \\ \tiny \begin{array}{c} \textbf{1-625-075-11} \\ \textbf{BVW-300AP} \end{array} \end{array}$

MB-317AP;MOTHER	BOARD
SW-297;BACK TAL	LY

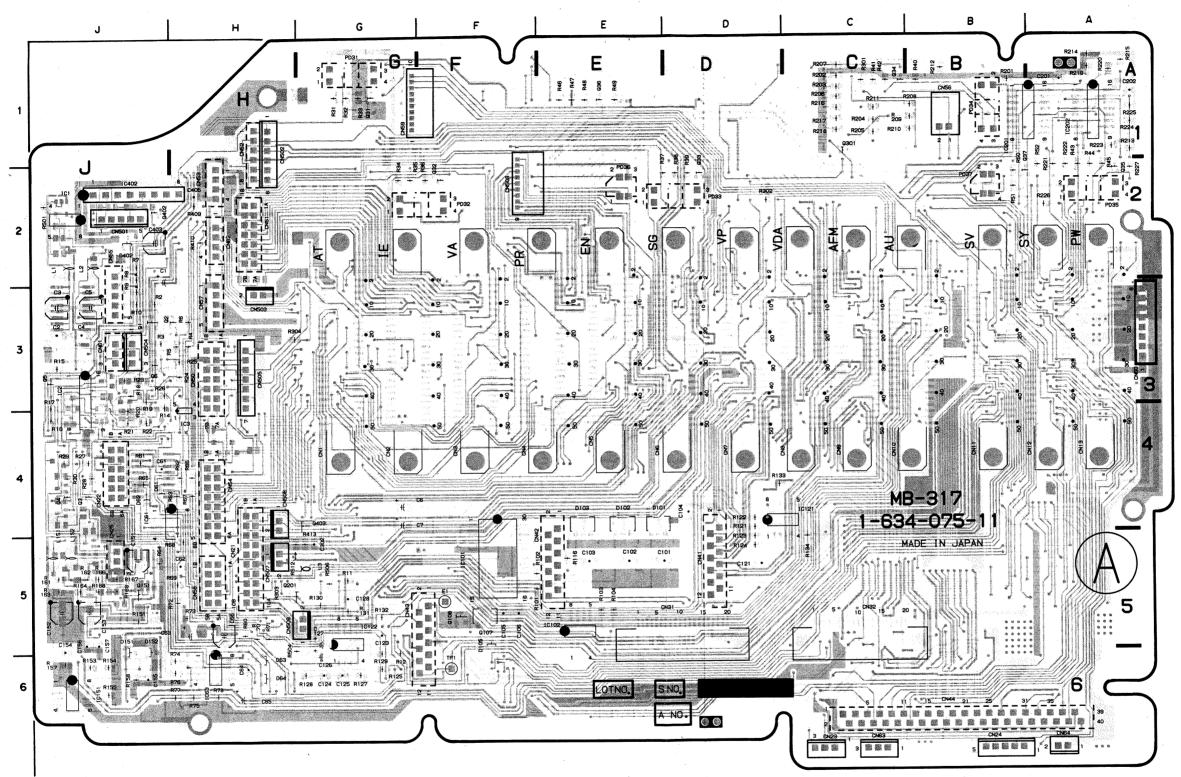
S/N;41954 through 42130

CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9 CN10 CN11	G - 4 G - 4 F - 4 F - 4 E - 4 E - 4 D - 4 C - 4 C - 4 C - 4 B - 4 A - 4	D 6 3 D 6 4 D 1 0 1 D 1 0 2 D 1 0 3 D 1 0 5 D 1 5 1 D 1 5 2 D 4 0 1 D 4 0 2 D 4 0 3	H - 6 H - 6 E - 4 E - 4 E - 4 F - 5 J - 5 J - 5 J - 5 J - 5 J - 2 H - 4	Q107 Q108 Q151 Q201 Q202 Q301 Q401 Q402 Q403 Q404 Q405 Q501	F - 5 F - 5 J - 5 H - 5 H - 4 C - 1 J - 5 J - 2 G - 4 J - 4 J - 4 J - 3
CN13 CN21	A – 4 H – 5	E 1	F – 5	TP1	F - 6
C N 2 2 C N 2 3 C N 2 4 C N 2 5 C N 3 1 C N 3 2 C N 4 1 C N 4 2 C N 4 3 C N 4 4 C N 5 0 C N 5 1 C N 5 2 C N 5 3 C N 5 4 C N 5 5 C N 5 6 C N 5 7 C N 5 8	H-5 J-4 6 B-6 J-5 5 C-5 B-6 H-2 H-2 H-2 H-3 B-3 H-2 H-1 J-1 G-1	IC 1 IC 2 IC 3 IC 4 IC 6 1 IC 6 2 IC 6 3 IC 10 1 IC 10 2 IC 12 1 IC 12 2 IC 15 1 IC 20 1 IC 20 2 IC 4 0 1 IC 4 0 2 IC 4 0 3 IC 4 0 4 IC 4 0 5	J - 2 J - 3 H - 4 J - 4 H - 6 F - 5 C - 4 G - 5 J - 6 B - 1 J - 5 J - 2 J - 2 J - 2 J - 2	IPI	F - 6
C N 5 9 C N 6 0	A – 3	P D 3 1	G – 1		
CN61 CN62 CN63 CN64 CN501 CN502 CN503	J - 3 H - 2 C - 6 A - 6 J - 2 H - 1 H - 3	PD32 PD33 PD34 PD35 PD36 PD37	F - 2 D - 2 B - 1 A - 2 E - 1 B - 2		
CN 504 CN 505 CN 506 CN 507 CN 508 CN 509	J - 3 H - 3 H - 4 H - 5 F - 2 H - 5	Q1 Q2 Q3 Q4 Q5 Q6	J - 3 J - 3 J - 4 J - 4 J - 3 J - 3		
D 1 D 2 D 3 D 4 D 6 1 D 6 2	H - 4 J - 3 J - 3 J - 4 J - 4 J - 4	Q31 Q32 Q33 Q34 Q35 Q36 Q37	G - 1 F - 2 D - 2 C - 1 A - 2 E - 1 B - 1		



MB-317AP; MOTHER BOARD SW-297; BACK TALLY

S/N;41954 through 42130



SW - 291

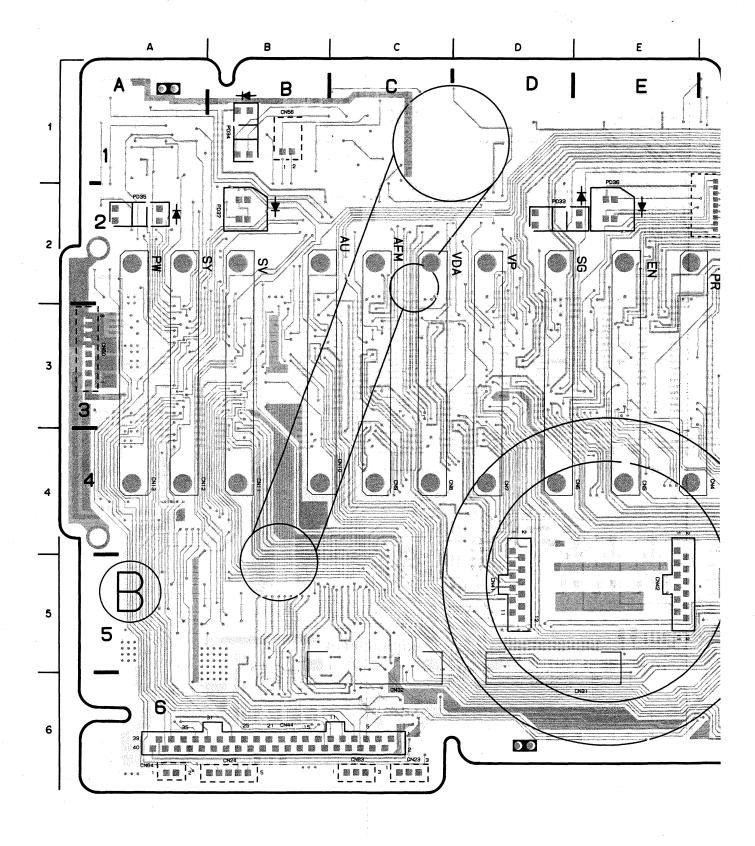
-COMPONENT SIDE1-634-555-13
BVW-300AP

© © © © ©

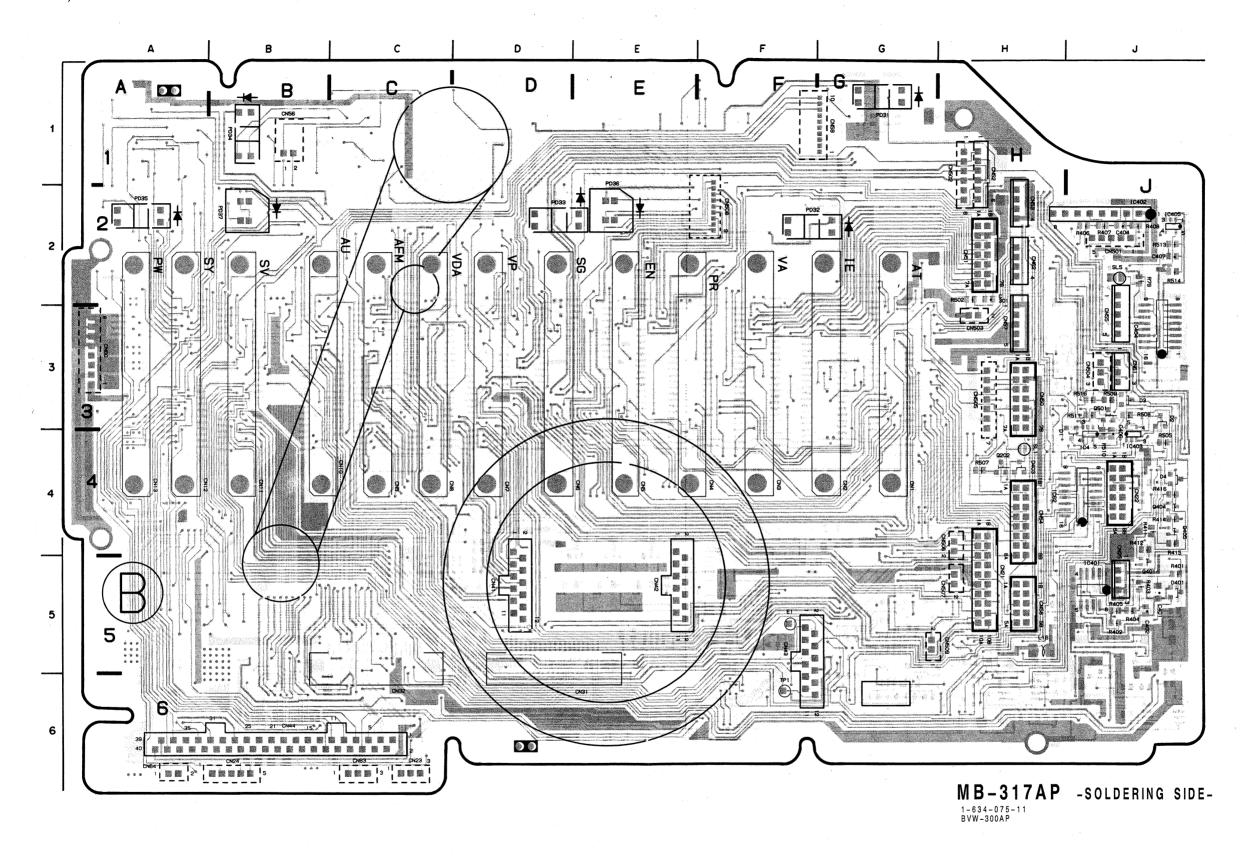
 $\begin{array}{lll} \boldsymbol{MB-317AP} & -\text{COMPONENT SIDE-} \\ \begin{smallmatrix} 1-625-075-11 \\ \text{BVW}-300AP \end{smallmatrix} \end{array}$

MB-317AP;MOTHER BOARD

CN1	G – 4	D 6 3	H – 6	Q107	F – 5
	G - 4			Q108	F – 5
CN2		D 6 4	H – 6		
CN3	F – 4	D 1 0 1	E – 4	Q 1 5 1	J – 5
CN4	F – 4	D 1 0 2	E – 4	Q 2 0 1	H – 5
CN5	E – 4	D 103	E – 4	Q202	H – 4
CN6	E – 4	D105	F - 5	Q301	C – 1
CN7	D – 4	D151	J - 5	Q401	J – 5
CN8	C – 4	D 1 5 2	J – 5	Q402	J – 2
CN9	C – 4	D 4 0 1	J – 5	Q403	G – 4
CN10	C – 4	D 4 0 2	J – 2	Q 4 0 4	J – 4
CN11	B – 4	D 4 0 3	H – 4	Q405	J - 4
CN12	A – 4			Q501	J – 3
CN13	A – 4	E 1	F – 5		
	H – 5	- '		TP1	F - 6
CN21		104		IFI,	F - 0
C N 2 2	J – 4	IC1	J – 2		
C N 2 3	C – 6	1 C 2	J – 3		
C N 2 4	B – 6	1 C 3	H – 4		
CN25	J – 4	I C 4	J – 4		
CN31	D – 5	IC61	J – 4		
CN32	C - 5	I C 6 2	H – 4		
CN41	D - 5	IC 63	H – 6		
C N 4 2	E - 5	IC101	F – 5		
CN43	F – 5	IC102	E – 5		
C N 4 4	B - 6	IC121	C – 4		
CN50	H – 3	IC122	G – 5		
CN51	H - 2	IC151	J – 6		
CN52	H – 1	IC201	B – 1		
CN 53	H – 2	IC 2 0 2	A – 1		
C N 5 4	H – 4	IC401	J - 5		
CN55	J – 3	1 C 4 0 2	J – 2		
CN56	B – 1	I C. 4 0 3	J – 4		
CN57	H – 3	IC404	J – 3		
CN58	H – 5	IC405	J – 2		
CN59	G – 1				
CN60	A - 3	PD31	G – 1		
CN61	J - 3	PD32	F – 2		
CN62	H – 2	PD33	D – 2		
CN 63	C - 6	PD34	B – 1		
C N 64	A – 6	PD35	A – 2		
CN501	J – 2	PD36	E – 1		
CN502	H – 1	PD37	B – 2		
CN503	H – 3				
CN504	J – 3	Q.1	J - 3		
CN505	H – 3	Q2	J – 3		
CN506	H – 4	Q3	J – 4		
CN507	H – 5	Q 4	J – 4		
CN508	F - 2	Q 5	J – 3		
CN509	H – 5	Q 6	J – 3		
		Q 3 1	G – 1		
D 1	H – 4	Q32	F – 2		
D 2	J – 3	Q33	D – 2		
D 3	J – 3	Q34	C-1		
D 4	J – 4	Q35	A – 2		
D 6 1	J – 4	Q36	E – 1		
D 6 2	J – 4	Q37	B – 1		



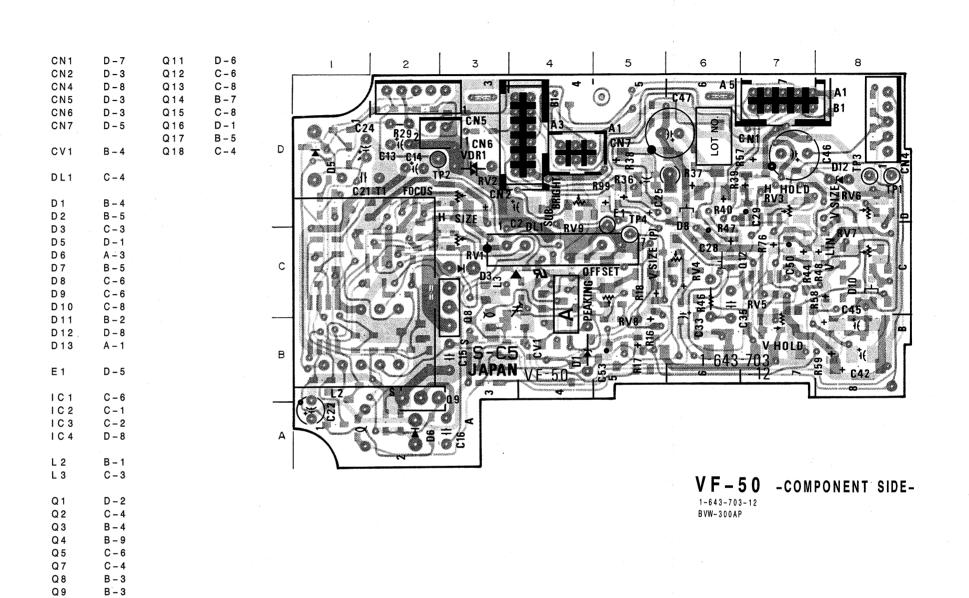
MB-317AP; MOTHER BOARD



VF-50 VIEWFINDER VIEWFINDER VF-50

VF-50; VIEWFINDER

S/N; 44001 and higher

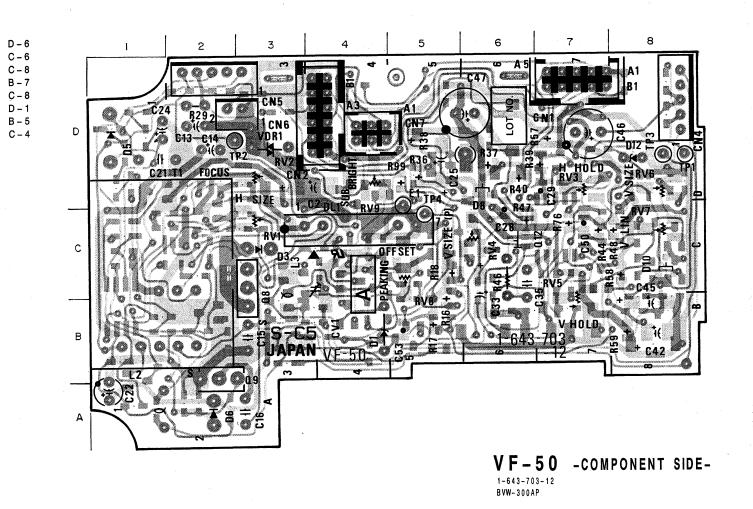


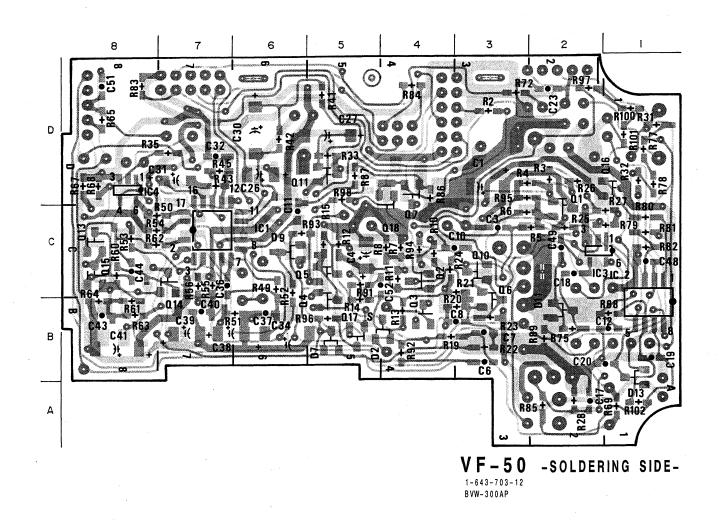
Q10

C - 3

VF-50; VIEWFINDER

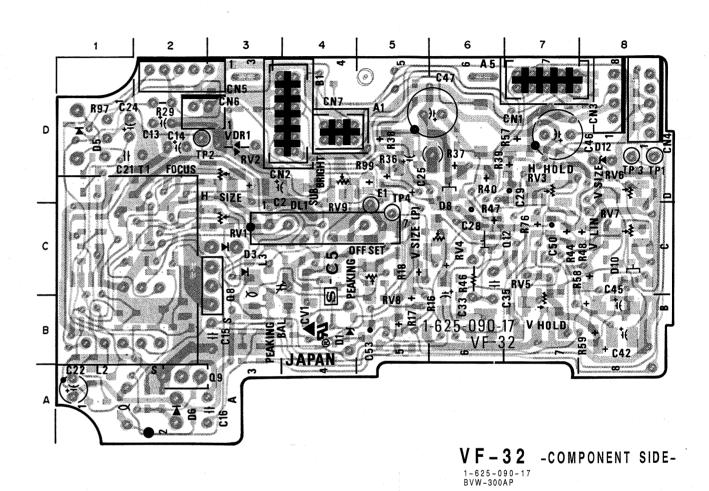
S/N;44001 and higher





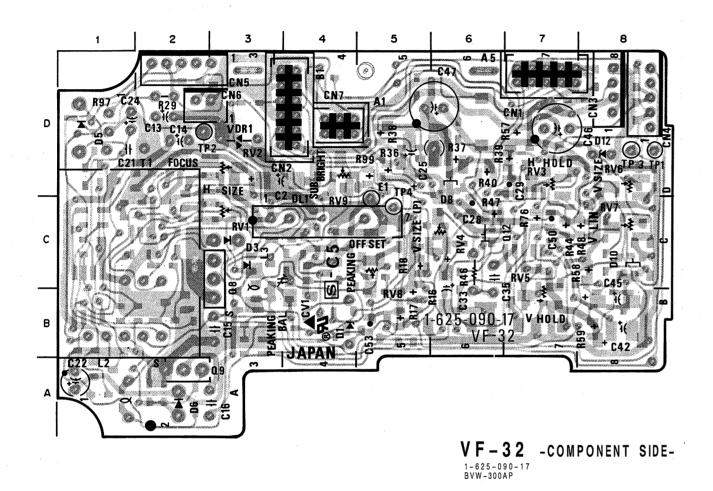
VF-32 VIEWFINDER VIEWFINDER VF-32

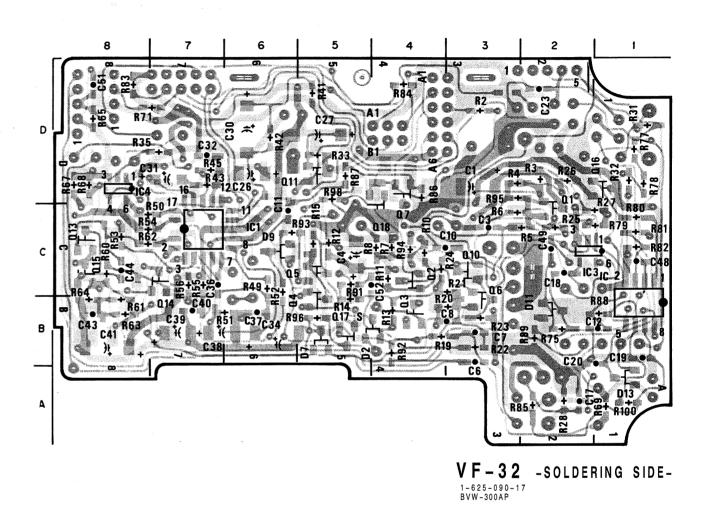
VF-32; VIEW FINDER
S/N; 41954 through 43999



VF-32; VIEWFINDER

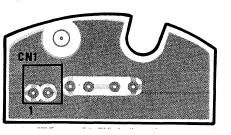
S/N; 41954 through 43999



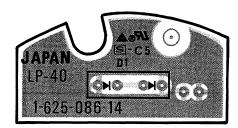


LP-40;REC LED LP-42; FRONT TALLY LED LP-58;BATT/TALLY,VTR SAVE LED SW-260A; SWITCH BOARD VR-67; VOLUME CONTROL

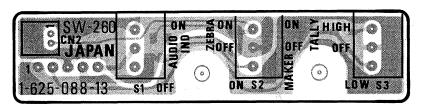
S/N; 41954 through 43999



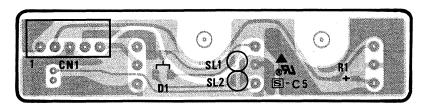
LP-40 -COMPONENT SIDE-



LP-40 -SOLDERING SIDE-1-625-086-14 BVW-300AP



SW-260A -COMPONENT SIDE-1-625-088-13 BVW-300AP

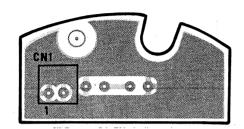


SW-260A -SOLDERING SIDE-1-625-088-13 BVW-300AP

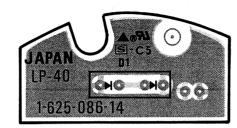
LP-40:REC LED LP-42; FRONT TALLY LED LP-58:BATT/TALLY,VTR SAVE LED SW-260A; SWITCH BOARD VR-67; VOLUME CONTROL

NFINDER VIEWFINDER

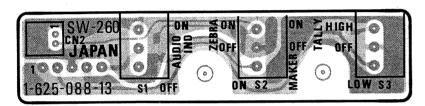
S/N; 41954 through 43999



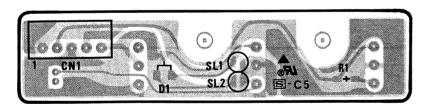
LP-40 -COMPONENT SIDE-1-625-086-14 BVW-300AP



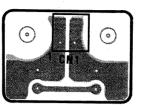
LP-40 -SOLDERING SIDE-1-625-086-14 BVW-300AP



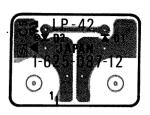
SW-260A -COMPONENT SIDE-1-625-088-13 BVW-300AP



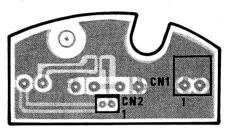
SW-260A -SOLDERING SIDE-1-625-088-13 BVW-300AP



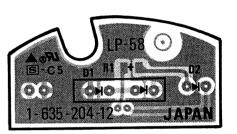
LP-42 -COMPONENT SIDE-1-625-087-12 BVW-300AP



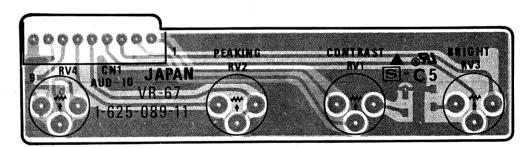
LP-42 -SOLDERING SIDE-1-625-087-12 BVW-300AP



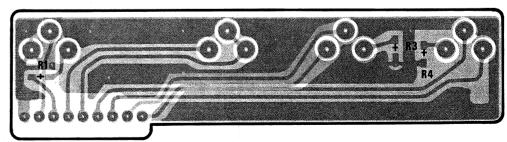
LP-58 -COMPONENT SIDE-1-635-204-12 BVW-300AP



LP-58 -SOLDERING SIDE-1-635-204-12 BVW-300AP

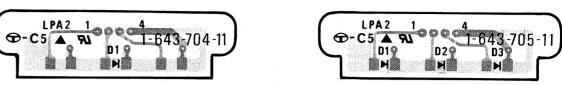


VR-67 -COMPONENT SIDE-1-625-089-11 BVW-300AP



VR-67 -SOLDERING SIDE-1-625-089-11 BVW-300AP

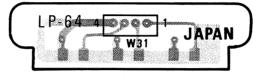
LP-64;REC LED
LP-65;FRONT TALLY LED
LP-66;BATT/TALLY,VTR SAVE LED
SW-526;SWITCH BOARD
VR-149;VOLUME CONTROL
CN-771;CONNECTOR

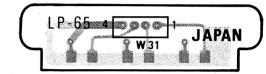


LP-64 -COMPONENT SIDE-



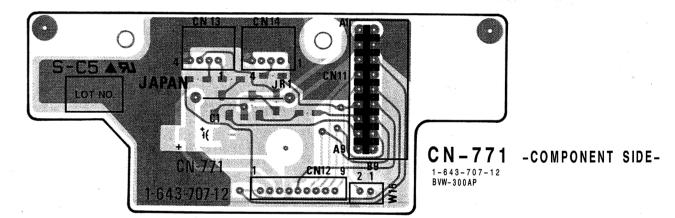
S/N; 44001 and higher

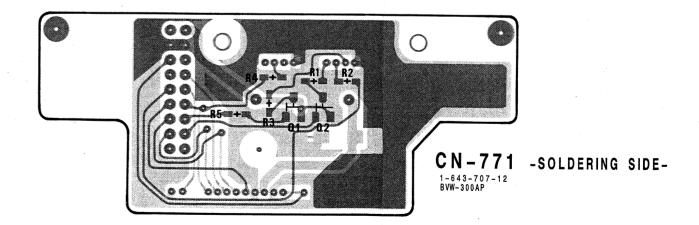




 $\begin{array}{c} LP-64 \\ ^{1-643-704-11} \\ ^{8VW-300AP} \end{array} - SOLDERING SIDE-$

LP-65 -SOLDERING SIDE-



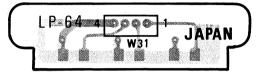


FINDER

LP-64; REC LED LP-65; FRONT TALLY LED LP-66; BATT/TALLY, VTR SAVE LED SW-526;SWITCH BOARD VR-149; VOLUME CONTROL

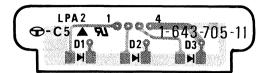
CN-771; CONNECTOR CP-C5 A 90 1-643-704-11

LP-64 -COMPONENT SIDE-1-643-704-11 BVW-300AP

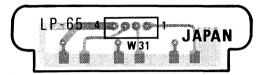


LP-64 -SOLDERING SIDE-1-643-704-11 BVW-300AP

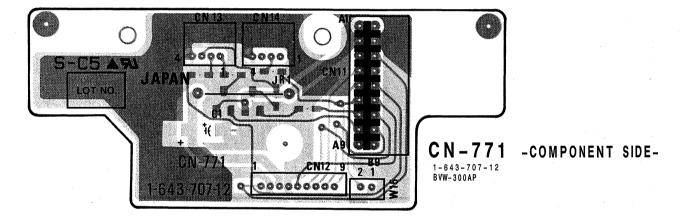
S/N;44001 and higher

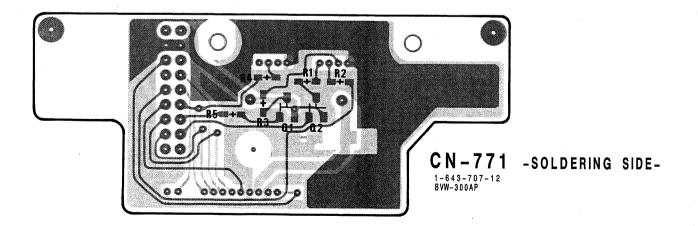


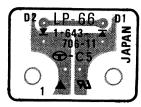
LP-65 -COMPONENT SIDE-1-643-705-11 BVW-300AP



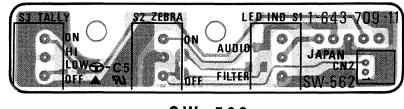
LP-65 -SOLDERING SIDE-1-643-705-11 BVW-300AP



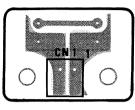




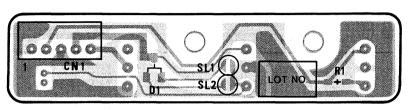
LP-66 -COMPONENT SIDE-1-643-706-11 BVW-300AP



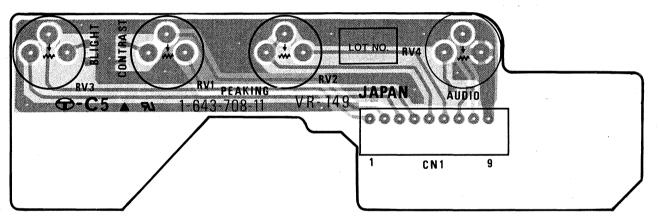
SW-562 -COMPONENT SIDE-1-643-709-11 BVW-300AP



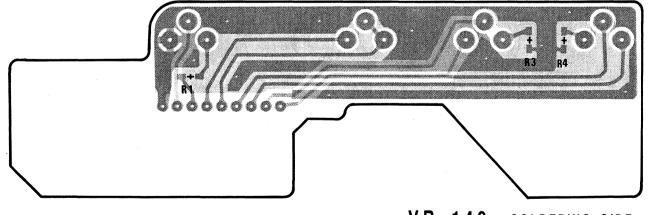
LP-66 -SOLDERING SIDE-1-643-706-11 BVW-300AP



SW-562 -SOLDERING SIDE-1-643-709-11 BVW-300AP



VR-149 - COMPONENT SIDE-1-643-708-11 BVW-300AP



VR-149 -SOLDERING SIDE-1-643-708-11 BVW-300AP

SECTION 13 SPARE PARTS AND FIXTURE

13-1. PARTS INFORMATION

1. Safety Related Component Warning

Components identified by shading marked with \triangle on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

- 2. Replace parts that are supplied from Sony Parts Center can sometimes have different shape and external appearance than what are actually used in equipment. This is due to accommodating the improved parts and/or engineering changes or standardization of genuine parts."
 - This manual's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present."
 - Regarding engineering parts and diagrams changes in our engineering department, refer to Sony service bulletins and service manual supplements.
- 3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
- Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
- 5. Regarding engineering parts changes in our engineering department, refer to SECTION 14 "CHANGED PARTS".
- All capacitors are in micro farads unless otherwise specified.
 All inductors are in micro henries unless otherwise specified.
 All resistors are in ohms.

FRONT PANEL

13-2. EXPLODED VIEW

FRONT PANEL

```
Part No.
                    SP Description
No.
                                                                                  X-3165-654-1 o COVER ASSY, SHIELD
       A-7513-761-A o MOUNTED CIRCUIT BOARD, CN-273
                                                                           31
                                                                                                   Serial No. 13001 AND HIGHER(UC)
       A-7513-942-A O MOUNTED CIRCUIT BOARD, DR-84
                                                                                                             32001 AND HIGHER(J)
       A-7513-958-A o MOUNTED CIRCUIT BOARD, PA-101
 3
                                                                                                             44001 AND HIGHER(EK)
                       Serial No. UP TO 12999(UC)
                                                                                  X-3710-064-3 o CASE ASSY, SHIELD
                                    UP TO 31999(J)
                                                                           32
                                                                                                  Serial No. 13001 AND HIGHER (UC)
                                   UP TO 43999(EK)
                                                                                                             32001 AND HIGHER(J)
       A-7575-162-A s CCD UNIT-W300A (N) (J, UC)
                                                                                                              44001 AND HIGHER(EK)
       A-7575-163-A s.CCD UNIT-W300AP (P) (EK)
 5
                                                                                  3-176-013-01 o RETAINER, PC BOARD
                                                                           33
                                                                                                  Serial No. 13001 AND HIGHER(UC)
       A-7615-261-A s SW (B) ASSY, FRONT X-3722-375-9 o FRAME SUB ASSY, FRONT X-3722-439-4 o PLATE (B) ASSY, ORNAMENTAL
 6
                                                                                                             32001 AND HIGHER(J)
                                                                                                             44001 AND HIGHER(EK)
                                                                                  3-188-510-01 o STAY(UPPER), PC BOARD
       1-547-259-11 o FILTER UNIT, OPTICAL
                                                                           34
                                                                                                  Serial No. 13001 AND HIGHER (UC)
       1-554-395-00 s SWITCH, TOGGLE
10
                                                                                                             32001 AND HIGHER(J)
                                                                                                             44001 AND HIGHER (EK)
       1-554-396-00 s SWITCH, TOGGLE
1-629-570-11 o PRINTED CIRCUIT BOARD, SW-357
                                                                                  3-188-511-01 o STAY(LOWER), PC BOARD
                                                                           35
12
                                                                                                  Serial No. 13001 AND HIGHER (UC)
       2-623-773-11 s BOLT (M3X8), STAINLESS
13
                                                                                                             32001 AND HIGHER(J)
       3-678-629-00 s LEVER, MOUNT
14
                                                                                                             44001 AND HIGHER(EK)
       3-678-684-00 o HOLDER, CABLE
15
                                                                                  3-734-514-02 o SUPPORT(Y)
       3-699-048-01 s CAP, MOUNT
                                                                           36
16
                                                                                                   Serial No. 13001 AND HIGHER(UC)
       3-701-505-00 s SET SCREW, DOUBLE POINT 3X3
17
       3-710-024-01 o PACKING, VF
                                                                                                             32001 AND HIGHER(J)
18
                                                                                                              44001 AND HIGHER(EK)
       3-710-054-01 s KNOB, FILTER
19
                                                                                  3-734-518-01 o SHEET, INSULATING, SHIELD CASE
20
       3-710-057-02 o STAY (T), SHIELD PLATE
                                                                           37
                                                                                                  Serial No. 13001 AND HIGHER(UC)
32001 AND HIGHER(J)
                       Serial No. UP TO 12999(UC)
                                   UP TO 31999(J)
                                                                                                              44001 AND HIGHER(EK)
                                    UP TO 43999(EK)
                                                                                  3-734-519-03 o CASE, SHIELD
                                                                           38
                                                                                                  Serial No. 13001 AND HIGHER (UC)
        3-711-715-01 o RUBBER, SHIELD
21
                                                                                                              32001 AND HIGHER(J)
       3-711-757-01 o SUPPORT
22
                                                                                                              44001 AND HIGHER(EK)
                       Serial No. UP TO 12999(UC)
                                                                                  3-734-520-01 o SHEET, INSULATING, SHIELD CASE
Serial No. 13001 AND HIGHER(UC)
                                    UP TO 31999(J)
                                                                           39
                                    UP TO 43999(EK)
                                                                                                              32001 AND HIGHER(J)
       3-711-762-01 o RAIL, TG GUIDE
23
                                                                                                              44001 AND HIGHER(EK)
                       Serial No. UP TO 12999(UC)
                                                                                  3-734-593-03 o SHEET, SHIELD COVER
                                    UP TO 31999(J)
                                                                           41
                                                                                                   Serial No. 13001 AND HIGHER (UC)
                                    UP TO 43999(EK)
                                                                                                              32001 AND HIGHER(J)
       3-725-295-01 s SCREW, (+) (B3)
                                                                                                              44001 AND HIGHER(EK)
       3-729-068-01 o PLATE (FR), SHIELD
25
                                                                                  3-742-206-01 o SHEET(F), SHIELD COVER
26
       3-734-712-01 o STAY (B3), SHIELD PLATE
                                                                           42
                       Serial No. UP TO 12999(UC)
                                    UP TO 31999(J)
                                    UP TO 43999(EK)
       3-742-064-01 o FINGER, SHIELD
27
28
       3-884-053-00 s RING (0)
       3-174-522-01 o COVER (2), TG SHIELD
                       Serial No. UP TO 12999(UC)
                                    UP TO 31999(J)
                                    UP TO 43999(EK)
```

```
*1) CCD BLOCK NUMBER; B E A XXXX
*2) CCD BLOCK NUMBER; B F A XXXX
```

How to read the CCD BLOCK NUMBER

```
B E A XXXX

Block number of CCD UNIT

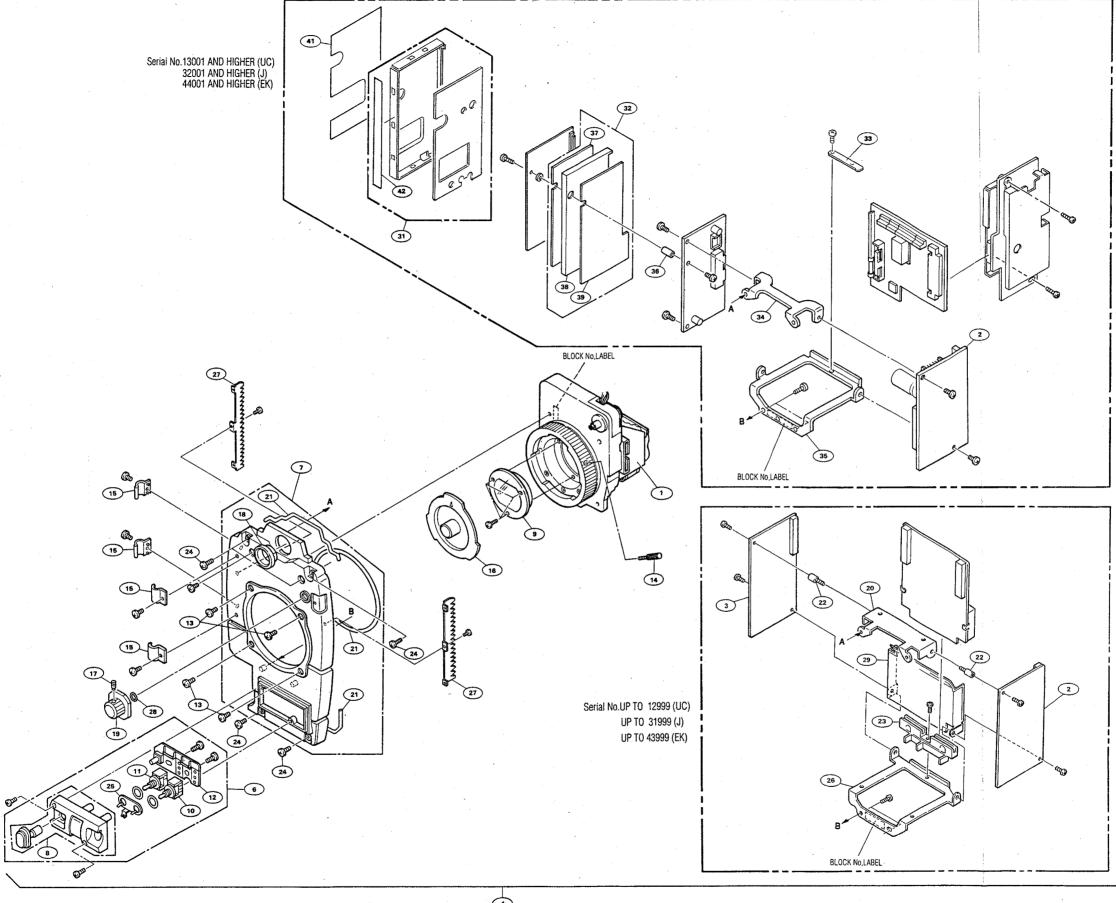
Suffix of Spare Part number

Model name (E:BVW-300A, F:BVW-300AP)

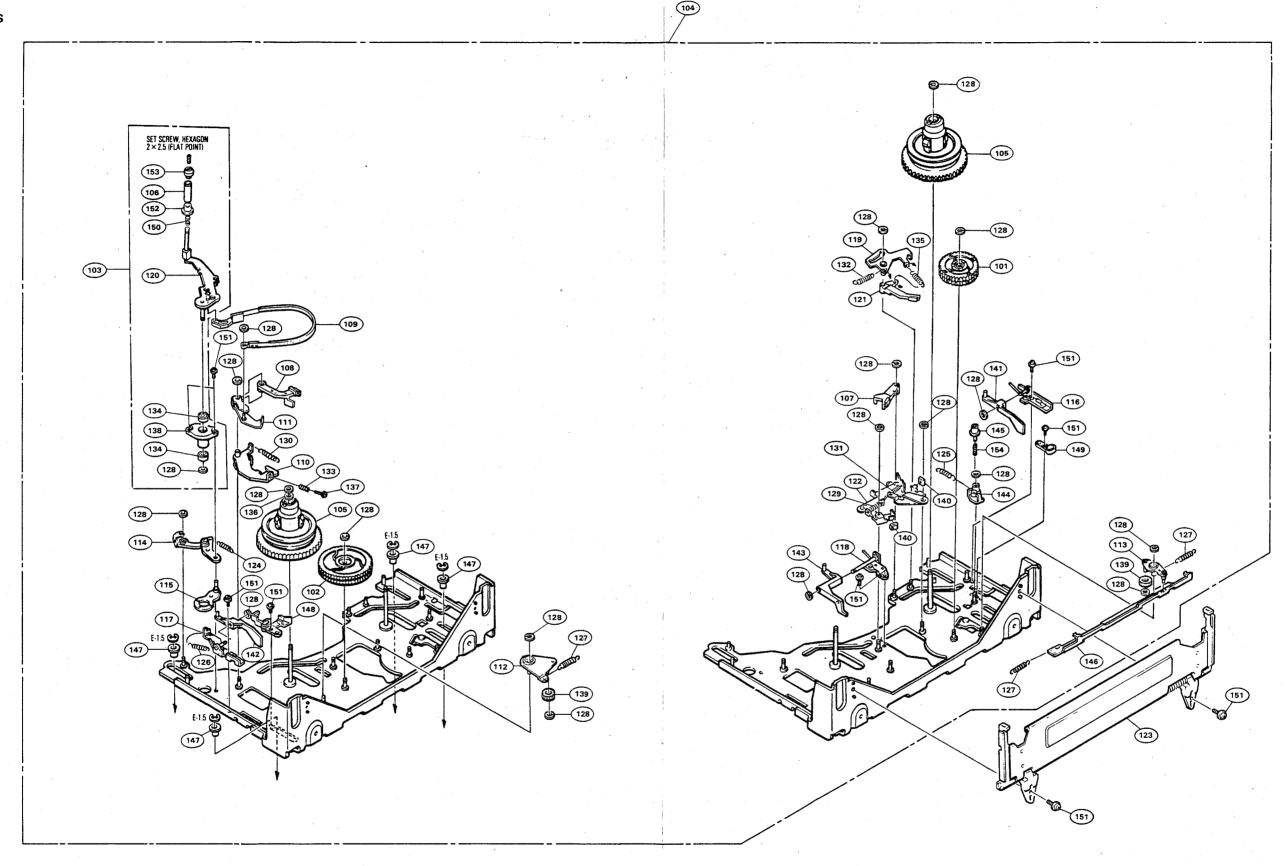
CCD type
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BVW-300A(J, UC) BVW-300AP(EK) (BKW-301/301P)





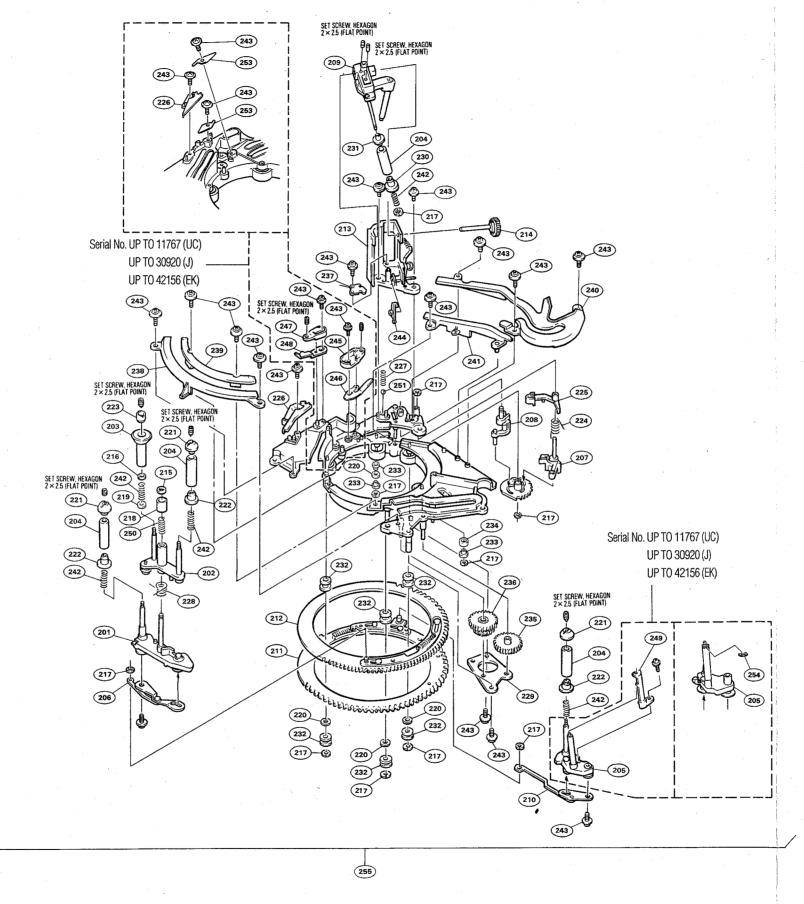
BVW-300A(J, UC) BVW-300AP(EK) (BKW-301/301P) 4



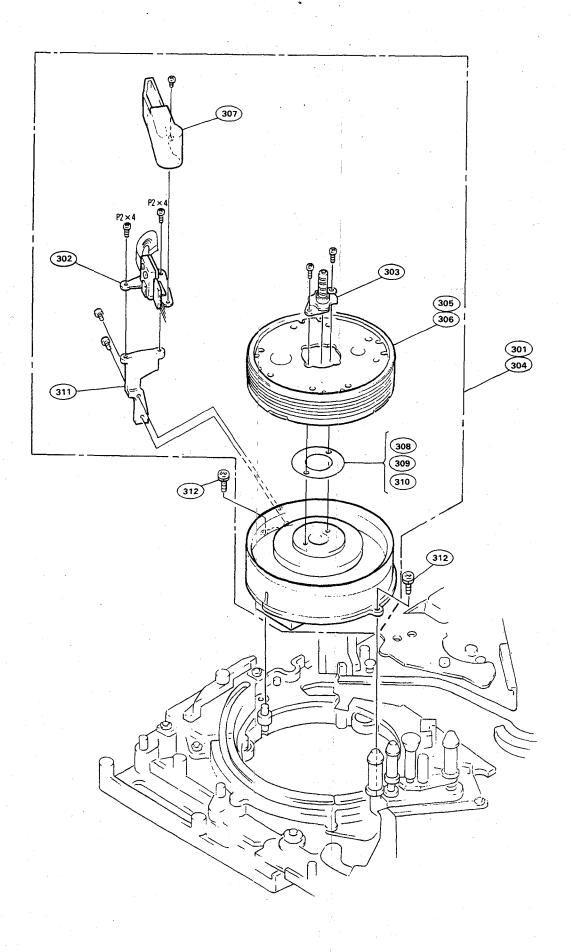
REEL CHASSIS

No.	Part No. SP Description
102	A-6742-067-K O TENSION REGULATOR ASSY A-6771-030-J O CHASSIS ASSY, REEL
107 108	X-3722-322-1 s ROLLER ASSY, POM X-3722-323-1 s BRAKE ASSY, T SOFT X-3722-324-3 s BRAKE ASSY, S SOFT X-3722-325-3 s BAND ASSY, TENSION REGULATOR X-3722-326-2 o LEVER (A) ASSY, SUPPORT LEVER
111 112 113 114 115	X-3722-327-3 o SUPPORT (B) ASSY, BAND X-3722-328-1 o ARM ASSY, S JOINT GEAR X-3722-329-1 o ARM ASSY, T JOINT GEAR X-3722-330-1 o HOOK ASSY, SPRING X-3722-331-1 o DRIVING ASSY, TENSION REGULATOR
116 117 118 119 120	X-3722-332-1 o HOLDER (A) ASSY X-3722-333-3 o HOLDER (B) ASSY X-3722-334-1 o HOLDER (C) ASSY X-3722-335-2 o LEVER ASSY, PINCH ARM LOCK X-3722-351-8 o ARM ASSY, TENSION REGULATOR
123 124	X-3722-410-1 s BRAKE ASSY, T SUB SOFT X-3722-421-1 o SLIDER ASSY, BRAKE X-3722-423-1 o PLATE (B) ASSY, BLIND 3-489-310-XX s SPRING, TENSION, T19 3-514-127-01 s SPRING, TENSION
126 127 128 129 130	3-527-025-00 s SPRING, TENSION 3-527-189-11 s SPRING, TENSION 3-559-408-11 s WASHER, POLYETHYLENE, DIA.1.2 3-564-935-00 s SPRING, TENSION 3-567-028-11 s SPRING, TENSION
133. 134	3-570-590-00 s SPRING, TENSION 3-570-951-00 s SPRING, TENSION 3-573-150-00 s SPRING, COMPRESSION 3-650-312-00 s BEARING, BALL (NO FLANGE) 3-667-309-00 s SPRING, TENSION
137 138 139	3-701-437-21 s WASHER 3-703-502-71 s SCREW 3-722-325-02 o BOSS, ARM BEARING 3-722-344-01 s GEAR, JOINT 3-722-354-01 o RUBBER, BRAKE
141 142 143 144 145	3-722-357-01 s LEVER (A), REC, MISTAKE 3-722-360-01 s LEVER (B), REC, MISTAKE 3-722-363-01 s LEVER, METAL DETECTION 3-722-367-01 o HOLDER, DETECTION PIN 3-722-368-01 o PIN, CASSETTE DETECTION
146 147 148 149 150	3-722-458-03 o LINK (A), JOINT GEAR 3-723-007-01 s ROLLER, LS 3-723-011-03 s HOLDER (RIGHT), SLIDE PIN 3-723-012-01 s HOLDER (LEFT), SLIDE PIN 3-729-011-01 s SPRING, COMPRESSION
-152 153	3-729-013-21 s SCREW(M1.4X2.5), WASHERHEAD(+P) 3-729-026-04 o FLANGE (B), LOWER 3-729-079-05 s FLANGE, UPPER, TENSION REGULATOR 4-879-762-00 s SPRING, COMPRESSION

SLANT			
No.	Part No. SP Description		
201 202 203 204 205	X-3722-313-5 s BASE ASSY, S X-3722-314-3 s BASE ASSY, S SUB X-3722-315-2 s IR-2 ASSY X-3722-319-1 s ROLLER ASSY X-3167-773-1 s BASE ASSY (RP), T Serial No. UP TO 11767 (UC) UP TO 30920 (J) UP TO 42156 (EK)	241 242 243 244 245	3-725-218-02 s RAIL (I), T 3-729-011-01 s SPRING, COMPRESSION 3-729-013-21 s SCREW(M1. 4X2. 5), WASHERHEAD(+P) 3-729-020-01 o PLATE, FIXED, T SUB 3-729-040-01 o PLATE, INDICATION, T Serial No. UP TO 11767 (UC) UP TO 30920 (J) UP TO 42156 (EK)
	X-3722-355-5 s BASE ASSY, T Serial No. 11768 AND HIGHER (UC) 30921 AND HIGHER (J) 42157 AND HIGHER (EK)	246	3-729-041-01 o SPRING Serial No. UP TO 11767 (UC) UP TO 30920 (J) UP TO 42156 (EK)
206 207 208 209 210	X-3722-382-1 o PULL ASSY, S X-3722-383-2 o LINK ASSY, T SUB FIXED X-3722-384-3 o LINK ASSY, T SUB ROTARY X-3722-385-5 s BASE ASSY, T SUB X-3722-386-2 o PLATE ASSY, PULL, T	247 248	3-729-042-01 o PLATE, INDICATION, S Serial No. UP TO 11767 (UC) UP TO 30920 (J) UP TO 42156 (EK) 3-729-043-01 o SPRING
211 212 213 214 215	X-3722-388-5 o RING (T) ASSY, LOATING X-3722-389-3 o RING (S) ASSY, LOATING	249	Serial No. UP TO 11767 (UC)
216 217 218 219 220	3-557-565-00 s WASHER, 1.4 DAI, SMALL 3-559-408-11 s WASHER, POLYETHYLENE, DIA.1.2 3-657-842-01 s SPACER (3X4) 3-695-567-01 s WASHER, M SLIDER 3-701-436-01 s WASHER, 1.6	250 251 252 253	UP TO 42156 (EK) 4-879-762-02 s SPRING, COMPRESSION 7-671-154-01 s STENLESS BALL 3-669-481-02 s PIN (DIA. L) PARALLEL 3-179-393-01 s GUIDE PLATE
221 222 223 224 225	3-722-400-02 s FLANGE (C), UPPER 3-722-401-02 s FLANGE (A), LOWER 3-722-402-02 o NUT, IR 3-724-770-01 o SPRING 3-724-772-02 o ARM, T,S FIXED	254	Serial No. 11768 AND HIGHER (UC) 30921 AND HIGHER (J) 42157 AND HIGHER (EK) 3-179-394-01 s H GUIDE Serial No. 11768 AND HIGHER (UC) 30921 AND HIGHER (J) 42157 AND HIGHER (EK)
226 227 228 229 230	3-724-775-02 o PLATE, OPEN, S 3-724-788-01 s SPRING, COMPRESSION 3-724-789-02 s SPRING 3-724-792-02 o REINFORCEMENT, GEAR 3-724-793-02 s FLANGE (A), ROLLER	255	A-8274-742-A o SLANT ASSY (RP)
231 232 233 234 235	3-724-794-01 s FLANGE (B), ROLLER 3-724-799-01 s FLANGE, RING 3-725-201-01 s ROLLER, RING 3-725-202-02 o ROLLER, SUB 3-725-203-01 o GEAR, S DRIVING MIDWAY		
236 237 238 239 240	3-725-204-01 o GEAR, S DRIVING 3-725-205-01 o PLATE, ADJUSTMENT, T SUB 3-725-214-02 s RAIL (0), S 3-725-215-02 s RAIL (I), S 3-725-217-04 s RAIL (0), T		



13-11

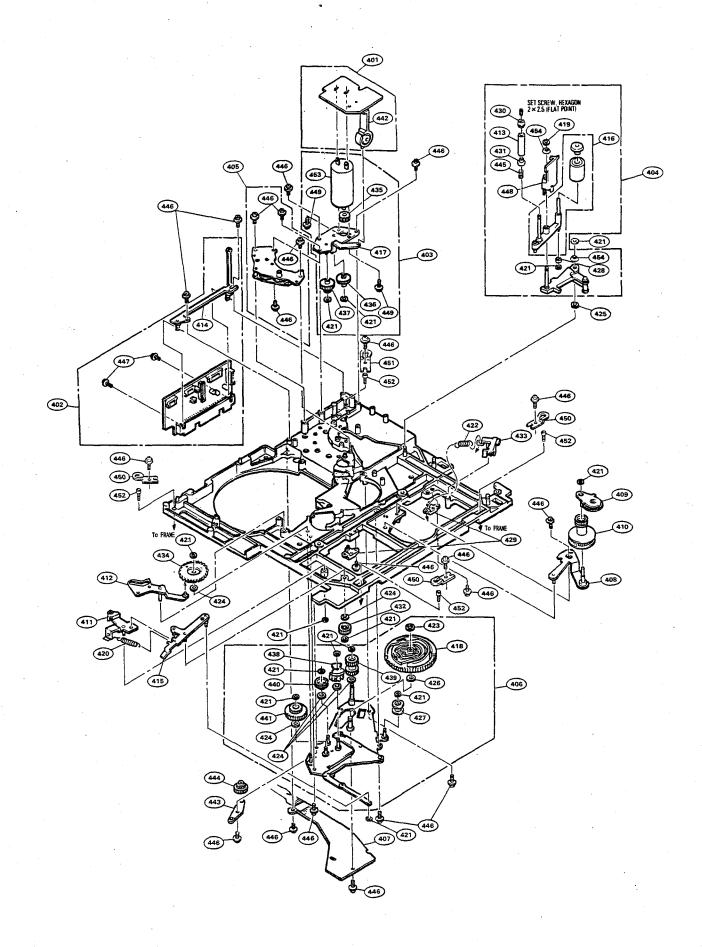


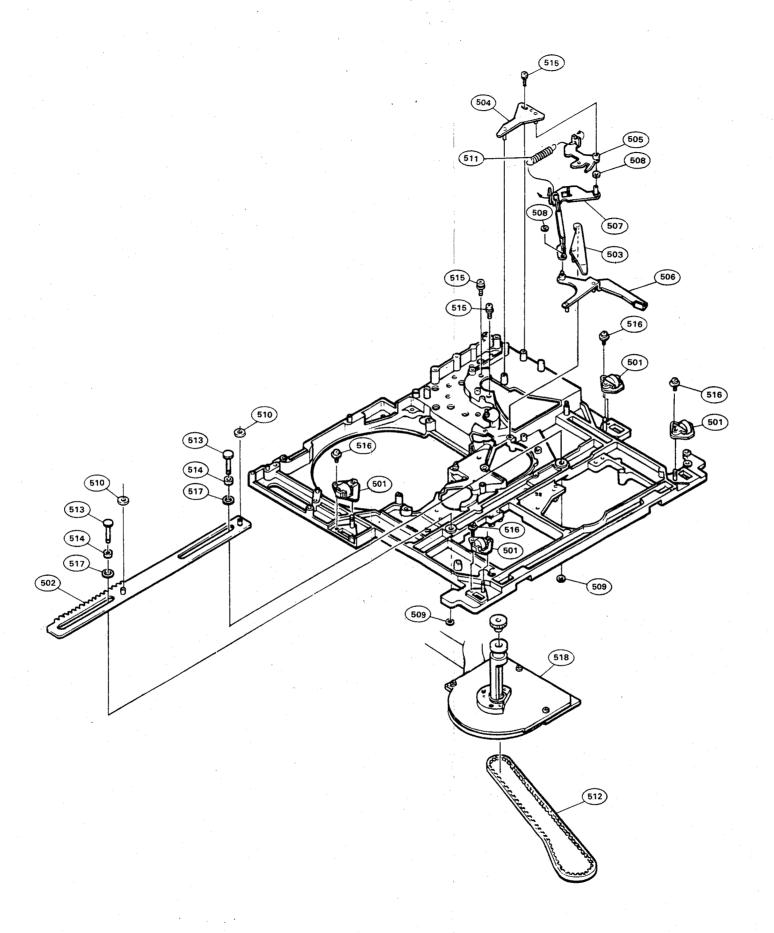
No.	Part No. SP Description
301 302 303 304 305	A-6050-611-A s HEAD DRUM ASSY DBH-14A-R (EK) A-6050-648-A s BRUSH ASSY A-6050-652-A s SLIP RING ASSY A-6050-673-A s HEAD DRUM ASSY DBH-15A-R (J, UC) A-6762-406-A s UPPER DRUM ASSY DBR-14A-R (EK)
	A-6762-418-A S UPPER DRUM ASSY DBR-15A-R (J, UC) 3-717-148-01 o COVER, BLUSH 3-717-150-01 s SPACER, FRANGE (0.01T) 3-717-150-11 s SPACER, FRANGE (0.03T) 3-717-150-21 s SPACER, FRANGE (0.05T)
311 312	3-717-178-03 o SUPPORT, BRUSH 3-729-012-01 s SCREW (M2X5)

DRUM

LOADING GEAR/CAM GEAR

No.	Part No. SP Description
401 402 403 404 405	A-6725-602-A O MOUNTED CIRCUIT BOARD, LD-21 A-6725-604-A O MOUNTED CIRCUIT BOARD, TB-5 A-6737-190-C O MOTOR ASSY, LOADING A-6747-262-K O ARM ASSY, PINCH
406 407 408 409 410	A-6750-233-B O GEAR SUB ASSY, CAM A-6754-072-A O MOUNTED CIRCUIT BOARD, SR-40 X-3722-304-1 O BASE ASSY X-3722-306-3 S GEAR ASSY X-3722-307-1 O PULLEY ASSY, MIDWAY
412 413 414	X-3722-308-1 o LEVER ASSY, RELEASE, ST X-3722-316-1 o ARM ASSY, DRIVING X-3722-319-1 s ROLLER ASSY X-3722-343-1 o HOLDER (40P) ASSY, CONNECTOR X-3722-357-1 o LINK ASSY, EJECT
418 419	X-3722-363-4 s PINCH ASSY, SUB X-3722-364-3 o BRACKET ASSY, MOTOR X-3722-369-2 s CAM ASSY, FUNCTION 3-321-813-01 s WASHER, COTTER POLYETHYLENE 3-531-794-00 s SPRING, TENSION
422 423	3-559-408-11 s WASHER, POLYETHYLENE, DIA.1.2 3-668-508-00 s SPRING, TENSION 3-669-595-00 s WASHER (2), STOPPER 3-701-436-11 s WASHER, 1.6 POLYETHYLENE 3-701-438-01 s WASHER
427 428	3-701-438-21 s WASHER 3-722-369-01 s PULLEY, IDLER 3-722-382-01 s ROLLER, PINCH ARM 3-722-390-01 o HOOK, SPRING, SHUTTER 3-722-400-02 s FLANGE (C), UPPER
431 432 433 434 435	3-722-401-02 s FLANGE (A), LOWER 3-722-430-01 o GEAR, JOINT 3-722-460-01 o SHUTTER, CASSETTE DETECTION 3-723-010-01 o GEAR, REEL SLIDER DRIVING 3-723-062-01 s GEAR (MO)
437 438 439	3-723-064-01 s GEAR (M1) 3-723-065-01 s GEAR (M2) 3-723-080-02 o GEAR, CLUB 3-723-081-01 o GEAR (T) 3-723-082-02 o GEAR, T DRIVING MIDWAY
441 442 443 444 445	3-723-083-02 o GEAR, ST DRIVING 3-723-091-01 s HOLDER, TOP SENSOR 3-725-206-01 o BRACKET, T GEAR 3-725-207-02 o GEAR, T DRIVING 3-729-011-01 s SPRING, COMPRESSION
446 447 448 449 450	3-729-013-21 s SCREW(M1.4X2.5), WASHERHEAD(+P) 3-729-013-41 s SCREW(M1.4X2.5), WASHERHEAD(+P) 3-729-046-03 o GUARD, PINCH TAPE 3-729-076-01 s SCREW (+B) (2X3) 3-729-081-01 o RETAINER (A), SCREW
451 452 453 454	3-729-082-01 o RETAINER (B), SCREW 3-729-084-21 s BOLT (M2X5), HEXAGON HOLE 8-835-308-01 s MOTOR, DC LN18-S1N1B 3-729-098-01 s WASHER, SPRING





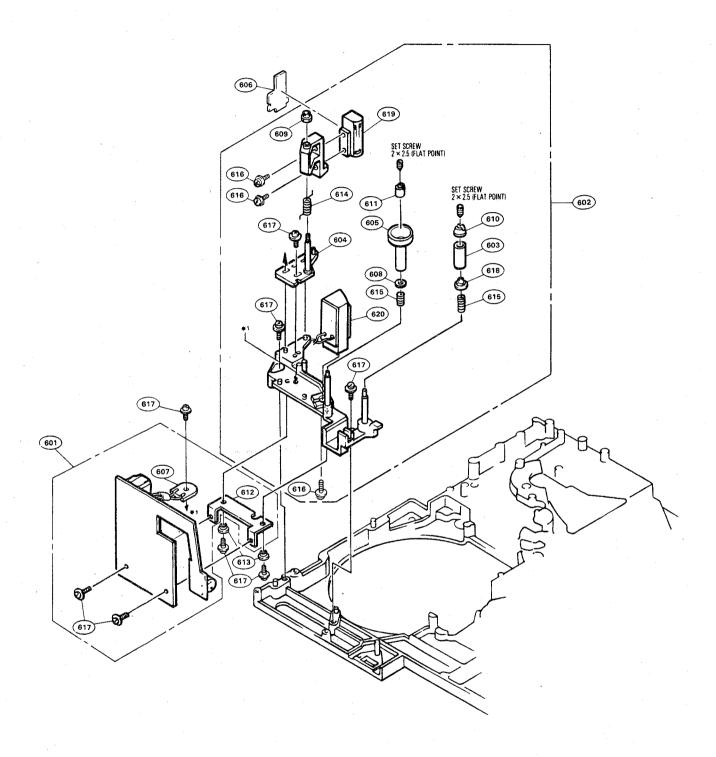
PINCH PRESS MECHANISM

No.	Part No. SP Description
501	X-3722-301-1 s ROLLER ASSY, REEL CHASSIS
502	X-3722-309-1 o SLIDER ASSY, REEL
503	X-3722-310-3 o LEVER ASSY, BRAKE
504	X-3722-311-1 o SUPPORT ASSY, P LEVER
505	X-3722-312-1 o LEVER (C) ASSY, PRESS
506	X-3722-345-1 o JOINT ASSY, PINCH
	X-3722-346-2 o LEVER ASSY, PRESS
	3-559-408-00 s POLY-WASHER, 1.2 DIA
	3-559-408-11 s WASHER, POLYETHYLENE, DIA. 1. 2
	3-701-439-21 s WASHER
511	3-701-788-XX s SPRING, TENSION, T18
512	3-722-452-01 s BELT, TIMING
	3-723-008-01 o RETAINER, ROLLER
514	3-723-009-01 s ROLLER, SLIDER PLATE
515	3-729-012-01 s SCREW (M2X5)
	3-729-013-21 s SCREW(M1. 4X2. 5), WASHERHEAD(+P)
	3-729-025-01 s WASHER
518	8-835-313-01 s MOTOR DC II-194

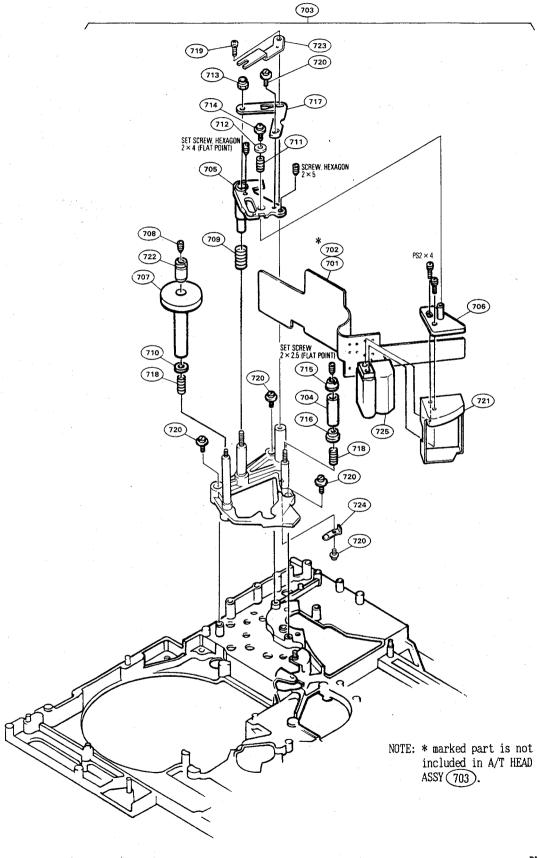
CTL HEAD BASE

No.	Part No. SP Description
602 603 604	A-6725-603-A O MOUNTED CIRCUIT BOARD, FE-4 A-6736-080-E O HEAD SUB ASSY, CTL X-3722-322-1 s ROLLER ASSY, POM X-3722-341-1 O PLATE ASSY, HEAD, CTL X-3722-342-4 s IR-1 ASSY
607 608 609	1-625-969-11 o PC BOARD, DUS-246 1-806-682-71 s SENSER, DEW CONDENSATION 3-557-565-00 s WASHER, 1.4 DAI, SMALL 3-698-829-01 s NUT (M2) 3-722-400-02 s FLANGE (C), UPPER
612 613 614	3-722-402-02 o NUT, IR 3-722-419-01 o HOLDER, FE-4 3-722-420-01 s SPACER, FE-4 HOLDER 3-723-092-02 s SPRING 3-729*011-01 s SPRING, COMPRESSION
617 618 619	3-729-012-01 s SCREW (M2X5) 3-729-013-21 s SCREW(M1.4X2.5), WASHERHEAD(+P) 3-742-003-01 s FLANGE (S), LOWER 8-825-560-41 s HEAD, CTL (RS-253-21) 8-825-772-61 s HEAD, ERASE EF291-21A

CTL HEAD BASE



A/T HEAD BASE



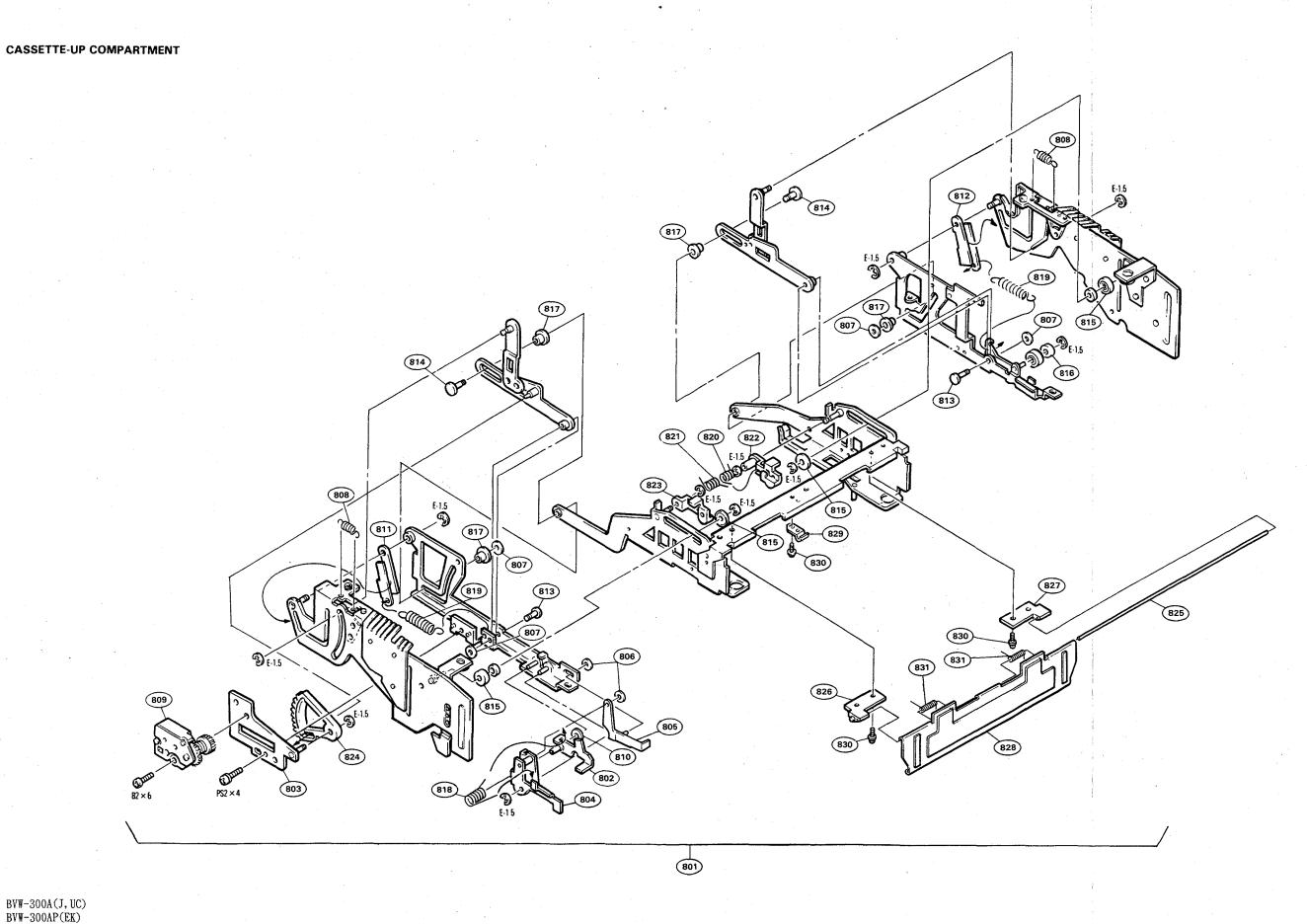
A/T HEAD BASE

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No.
          Part No.
                           SP Description
          A-6713-332-A O MOUNTED CIRCUIT BOARD, FL-55 (J,UC) A-6713-349-A O MOUNTED CIRCUIT BOARD, FL-55P (EK)
701
702
703
          A-6736-078-A o HEAD ASSY, A/T
                                     (NOT INCLUDING FL-55/55P BOARD)
704
           X-3722-319-1 s ROLLER ASSY
          X-3722-338-3 o PLATE (UPPER) ASSY, A/T
705
706
          X-3722-339-3 o PLATE (LOWER) ASSY, A/T
          X-3722-340-4 s IR-3 ASSY
707
          2-123-868-02 s SCREW (2X6)
3-534-236-00 s SPRING, COMPRESSION
3-557-565-01 s WASHER, 1.4 DIA, SMALL
708
709
710
          3\text{-}669\text{-}316\text{-}00 s SPRING, COMPRESSION 3\text{-}695\text{-}567\text{-}01 s WASHER, M SLIDER
711
712
          3-698-829-01 s NUT (M2)
713
          3-703-502-31 s SCREW
3-722-400-02 s FLANGE (C), UPPER
714
          3-722-401-02 s FLANGE (A), LOWER
3-722-412-15 o DAMPER, A/T
3-729-011-01 s SPRING, COMPRESSION
3-729-012-21 s SCREW (M2X4)
717
718
719
          3-729-013-21 s SCREW(M1. 4X2. 5), WASHERHEAD(+P)
720
          3-729-027-11 o CASE, SHIELD, A/T
3-729-066-01 o NUT, IR-3
3-729-067-02 o PLATE, INDICATION, IR-3
723
724
          3-742-002-01 o DAMPER, W & F
          8-825-749-02 s HEAD, AU PPS244-2103
725
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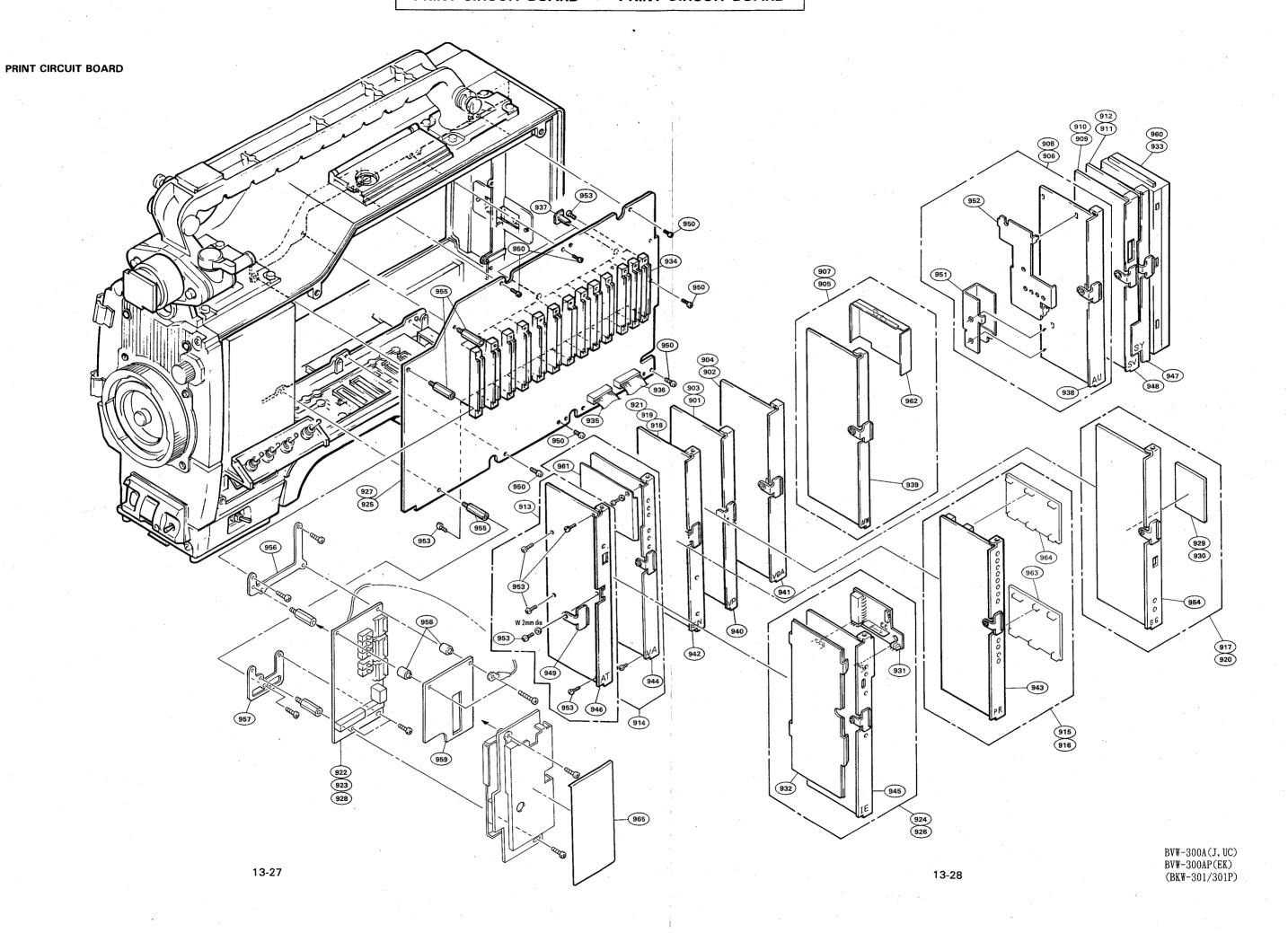
CASSETTE-UP COMPARTMENT

CASSETTE-UP COMPARTMENT

No.	Part No. SP Description
802 803 804	A-6751-381-F s CASSETTE COMPARTMENT ASSY X-3722-358-3 s STOPPER ASSY X-3722-361-2 o FITTING ASSY, DAMPER X-3722-381-4 s ARM ASSY, LOCK X-3722-412-1 o LEYER ASSY, RELEASE
807 808 809	3-315-384-11 s WASHER, STOPPER 3-321-813-01 s WASHER, COTTER POLYETHYLENE 3-674-402-00 s SPRING, TENSION 3-681-528-00 o DAMPER 3-701-436-21 s WASHER, POLYEHTHYLENE
812 813 814	3-723-016-01 o LEVER (RIGHT), LID OPEN 3-723-017-01 o LEVER (LEFT), LID OPEN 3-723-042-01 o SHAFT, LINK 3-723-043-01 o SHAFT, CASSETTE HOLDER 3-723-044-01 o RETAINER, BEARING
817 818 819	3-723-044-11 o RETAINER, BEARING 3-723-045-02 o ROLLER, HOLDER SLIDE 3-723-052-01 s SPRING (A), TORSION 3-723-053-01 o SPRING (A), TENSION 3-723-054-01 o SPRING (L), CASSETTE RETAINER
822 823 824	3-723-055-01 o SPRING (R), CASSETTE RETAINER 3-723-067-03 o RETAINER (LEFT), CASSETTE 3-723-068-01 o RETAINER (RIGHT), CASSETTE 3-723-086-01 o GEAR, DAMPER DRIVING 3-723-087-01 s SHAFT (A), BLIND PLATE
827 828 829 830	3-723-088-02 s GUIDE (RIGHT), CASSETTE 3-723-089-02 s GUIDE (LEFT), CASSETTE 3-723-090-03 s PLATE (A), BLIND 3-725-298-01 o PLATE, INDICATION, BLIND 3-729-013-21 s SCREW(MI. 4X2, 5), WASHERHEAD(+P) 3-695-515-02 o SPRING



BVW-300A(J, UC) BVW-300AP(EK) (BKW-301/301P)



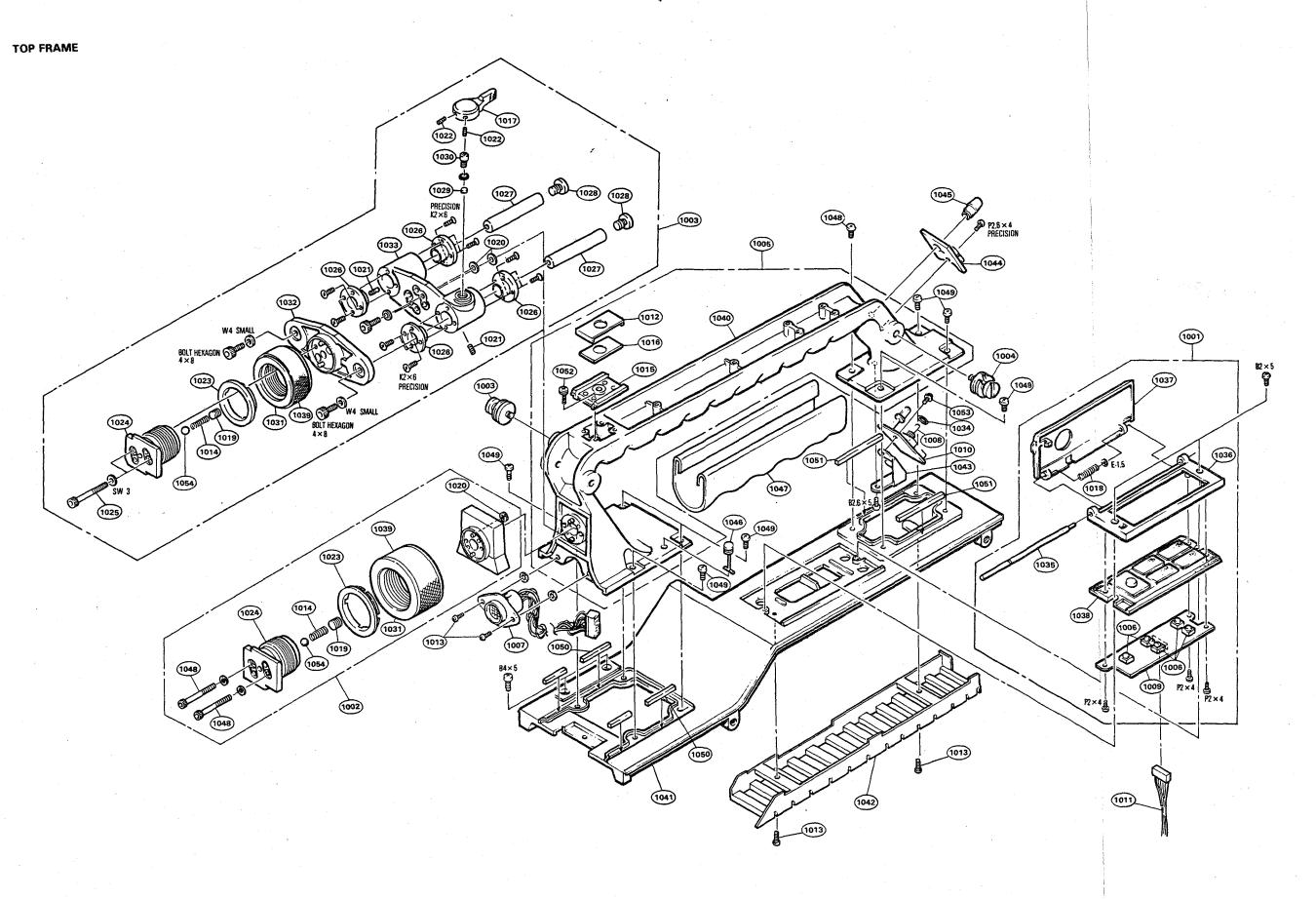
PRINT CIRCUIT BOARD

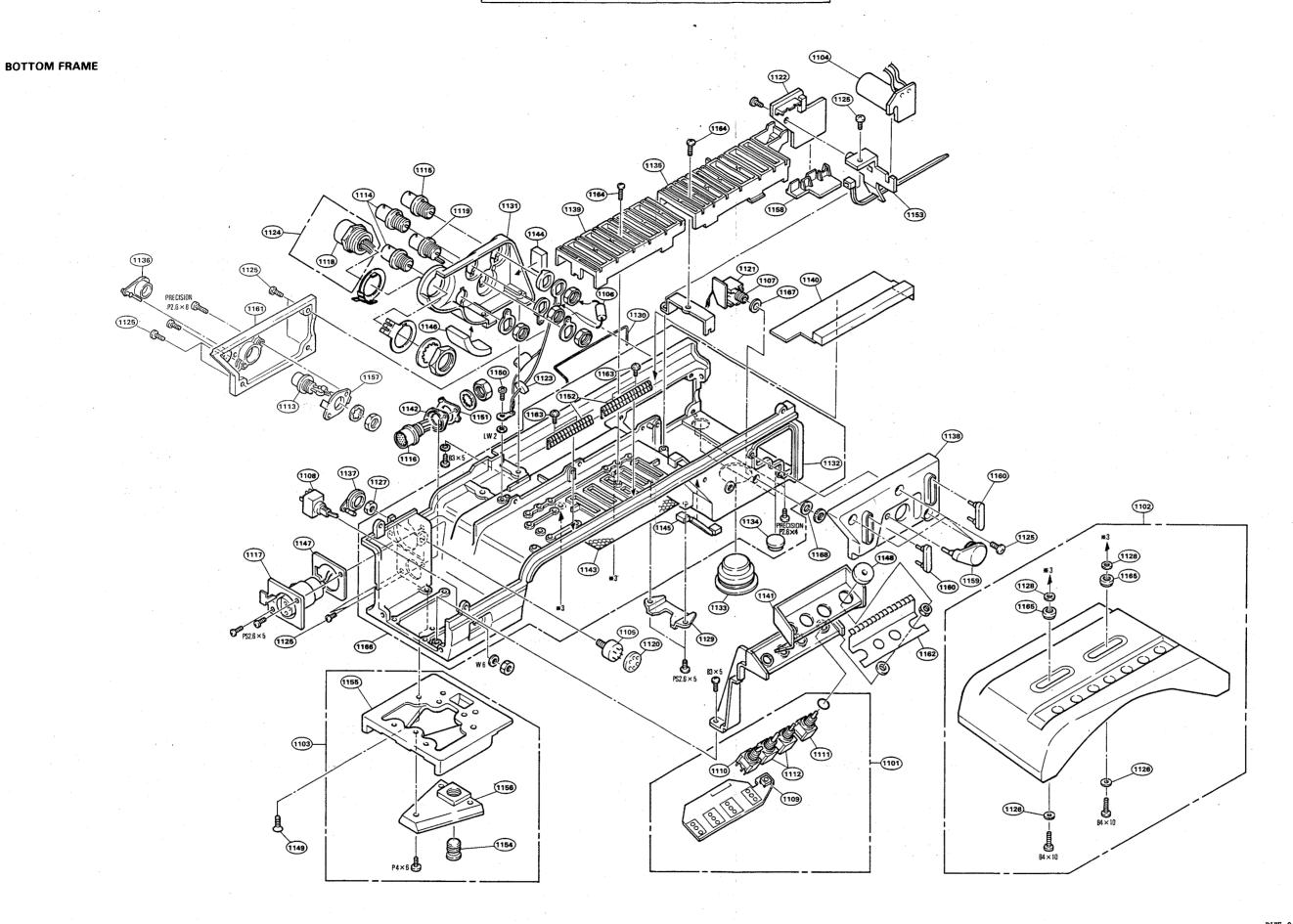
No.	Part No. SP Description
901 902 903	A-6711-932-B O MOUNTED CIRCUIT BOARD, VP-24 (J, UC) A-6711-933-C O MOUNTED CIRCUIT BOARD, VDA-11(J, UC) A-6711-992-A O MOUNTED CIRCUIT BOARD, VP-24P (EK)
904 905	A-6711-993-B o MOUNTED CIRCUIT BOARD, VDA-11P (EK) A-6713-319-B o MOUNTED CIRCUIT BOARD, AFM-6 (J, UC)
906 907 908	A-6713-320-A O MOUNTED CIRCUIT BOARD, AU-97 (J, UC) A-6713-350-A O MOUNTED CIRCUIT BOARD, AFM-6P (EK) A-6713-351-A O MOUNTED CIRCUIT BOARD, AU-97P (EK)
909 910	A-6715-436-A O MOUNTED CIRCUIT BOARD, SV-97A(J, UC) A-6715-438-A O MOUNTED CIRCUIT BOARD, SV-97AP (EK)
911	A-6717-576-A o MOUNTED CIRCUIT BOARD, SY-117C (J, UC)
	A-6717-577-A O MOUNTED CIRCUIT BOARD, SY-117CP(EK) A-7513-944-A O MOUNTED CIRCUIT BOARD, AT-49A Serial No. UP TO 12999 (UC) UP TO 31999 (J) UP TO 43999 (EK)
	A-8274-904-A o MOUNTED CIRCUIT BOARD, AT-49C Serial No. 13001 AND HIGHER (UC) 32001 AND HIGHER (J) 44001 AND HIGHER (EK)
914	A-7513-945-A o MOUNTED CIRCUIT BOARD, VA-83 Serial No. UP TO 12999 (UC) UP TO 31999 (J) UP TO 43999 (EK)
	A-8274-901-A O MOUNTED CIRCUIT BOARD, VA-168 Serial No. 13001 AND HIGHER (UC) 32001 AND HIGHER (J) 44001 AND HIGHER (EK)
915	A-8271-330-A o MOUNTED CIRCUIT BOARD, PR-176U (UC)
916 917	A-8271-333-A O MOUNTED CIRCUIT BOARD, PR-176(J,EK) A-7513-948-A O MOUNTED CIRCUIT BOARD, SG-152(J,UC)
918	A-7513-949-A O MOUNTED CIRCUIT BOARD, EN-79U (UC)
919	A-7513-950-A O MOUNTED CIRCUIT BOARD, EN-79 (J)
920	A-7513-960-A O MOUNTED CIRCUIT BOARD, SG-152P (EK)
921	A-7513-961-A O MOUNTED CIRCUIT BOARD, EN-79P (EK)
922	A-7515-149-A o MOUNTED CIRCUIT BOARD, IF-298 (UC) Serial No. UP TO 12999
	A-8271-331-A O MOUNTED CIRCUIT BOARD, IF-298A (UC) Serial No. 13001 AND HIGHER
923	A-7515-310-A o MOUNTED CIRCUIT BOARD, IF-298AP (EK) Serial No. UP TO 43999
	A-7515-330-B O MOUNTED CIRCUIT BOARD, IF-298AP (EK) Serial No. 44001 AND HIGHER
924	A-7515-311-A O MOUNTED CIRCUIT BOARD, IE-30A(J, UC)
925	A-7515-312-A O MOUNTED CIRCUIT BOARD.
020	MB-317A (J, UC)
926	A-7515-313-A O MOUNTED CIRCUIT BOARD, IE-30AP (EK)
927	A-7515-314-A O MOUNTED CIRCUIT BOARD, MB-317AP(EK)
928	A-7515-324-A O MOUNTED CIRCUIT BOARD, IF-298 (J) Serial No. UP TO 31999
	A-8271-334-A o MOUNTED CIRCUIT BOARD, IF-298AP (J)
929	Serial No. 32001 AND HIGHER A-7520-420-A o MOUNTED CIRCUIT BOARD, SG-157(J, UC)
930	A-7520-489-A O MOUNTED CIRCUIT BOARD, SG-1577, (EK)

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A-7520-521-A o MOUNTED CIRCUIT BOARD, IE-31
         X-3722-411-5 o PLATE (CARD) ASSY, SHIELD
      △1-464-995-21 s CONVERTER, DC-DC (CD-89B) (J, UC)
1-566-962-11 o CONNECTOR, BOARD TO BOARD 50P
934
935
          1-625-891-11 s PRINTED CIRCUIT BOARD, FL-45
          1-625-892-11 s PRINTED CIRCUIT BOARD, FL-46
936
         3-722-391-01 o HOLDER, GP2S09
937
         3-724-704-01 o PLATE (AU-97), ORNAMENTAL 3-724-705-01 o PLATE (AFM-6), ORNAMENTAL
938
939
         3-724-706-01 o PLATE (VP-24), ORNAMENTAL
         3-724-707-01 o PLATE (VDA-11), ORNAMENTAL 3-724-709-01 o PLATE (EN-62), ORNAMENTAL 3-724-710-01 o PLATE (PR-102), ORNAMENTAL 3-724-711-02 o PLATE (VA-62), ORNAMENTAL
941
942
943
         3-724-712-02 o PLATE (IE-20), ORNAMENTAL
945
         3-724-713-01 o PLATE (AT-49), ORNAMENTAL
3-724-714-01 o PLATE (SY-117), ORNAMENTAL
3-724-715-02 o PLATE (SY-97), ORNAMENTAL
946
947
948
949
         3-724-753-01 o RING, PRE
         3-729-013-21 s SCREW(M1.4X2.5), WASHERHEAD(+P)
         3-729-031-01 o CASE, (AU-1) SHIELD
3-729-032-03 o CASE, (AU-2) SHIELD
3-729-061-01 s SCREW (M2X4.5), (TYPE1)
951
952
953
         3-734-321-01 o PLATE (SG-152), ORNAMENTAL
955
         3-742-031-01 o SUPPORT (IF)
         3-742-032-01 o BRACKET (A), IF 3-742-033-01 o BRACKET (B), IF
956
957
958
         3-742-072-01 o SPACER (IF)
959
         3-742-073-01 o COVER, IF
      △1-464-995-41 s CONVERTER, DC-DC (CD-89) (EK)
961
         3-172-056-02 o PARTITION
962
         X-3166-340-2 s PLATE(AFM), SHIELD
963
         1-810-067-11 s BP-020
         1-810-066-11 s BP-021
         3-188-787-01 o LABEL
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TOP FRAME

TOP FRAME SP Description Part No. No. A-6731-155-A s KEY BOARD ASSY 1001 A-7612-319-B o SPACER ASSY, VF SLIDE (J) A-7612-331-F o SLIDE ASSY, VF (UC, EK) 1003 X-3672-208-2 o SUSPENSION ASSY (B) 1004 X-3722-370-7 o HANDLE ASSY 1005 1-554-371-51 s SWITCH, TACT 1006 1-565-051-11 o CONNECTOR, ROUND (WITH C) 20P "VF" 1007 1-570-608-11 s SWITCH, TOGGLE "BACK TALLY"
1-625-549-11 o PRINTED CIRCUIT BOARD, KY-124 1008 1009 1-625-555-13 o PRINTED CIRCUIT BOARD, SW-291 1010 1-940-628-11 o HARNESS, SUB (KY) 1011 2-277-468-01 o PLATE, ORNAMENTAL, CAMERA SHOE 7-621-775-20 s SCREW +B 2.6X5 1012 1013 3-641-622-00 s SPRING, COMPRESSION 1014 3-657-700-00 s BRACKET, ACCESSORY 1015 3-672-213-00 o SHEET, ADHESIVE 1016 3-673-046-00 s LEVER, LOCK 1017 3-673-281-00 o SPRING, COMPRESSION 3-682-760-01 o SCREW (M7-0.75), ADJUSTMENT 1018 1019 3-685-166-01 o WASHER, SCREW CLAMP 1020 3--701--506--01 s SET SCREW, DOUBLE POINT 3X4 3--701--508--00 s SET SCREW, DOUBLE POINT 3X6 1021 1022 3-710-018-01 s COLLAR, SLIDE 3-710-039-03 s SHOE, SLIDE 3-711-765-01 s BOLT (M3), HEXAGON SOCKET 1023 1024 1025 3-711-790-01 o SPACER (A) 1026 3-711-791-01 o ARM 1027 1028 3-711-792-01 o SCREW 3-711-793-01 o CUSHION (STOPPER) 1029 3-711-794-01 o PIN, STOPPER 1030 3-711-795-01 o RING (B), LOCK 1031 3-711-796-03 o TABLE, FIXED, VF SHOE 3-711-797-07 o TABLE, FIXED, VF SLIDE 1032 1033 3-717-825-01 o RING, 0 1034 3-717-854-01 o SHAFT, KEY BOARD COVER 1035 3-718-042-21 o FRAME, KEY BOARD 1036 3-718-043-23 o COVER, KEY BOARD 1037 3-718-044-01 s COVER, KEY BOARD RUBBER 1038 3-720-919-01 o RUBBER, LOCK RING 1039 3-722-467-08 o HANDLE 1040 3-722-469-08 o FRAME, TOP 3-724-736-01 o GUIDE (UPPER), PC BOARD 1041 1042 3-724-762-01 s HOLDER 1043 3-724-763-01 o COVER, BT 1044 3-724-764-01 s HOLDER, LED 1045 3-725-234-01 s RUBBER (DIA.7), DROP PROTECTION 1046 3-725-260-03 s GRIP, RUBBER 3-725-266-01 s BOLT (M3X40), HEXAGON SOCKET 3-725-295-01 s SCREW, (+) (B3) 1047 1048 1049 3-725-296-11 s FILTER (HANDLE) 1050 3-725-296-21 s FILTER (HANDLE) 1051 3-729-012-01 s SCREW (M2X5) 1052 3-729-013-21 s SCREW(M1.4X2.5), WASHERHEAD(+P) 1053 7-671-115-01 s BALL, STEEL





BOTTOM FRAME

No.	Part No. SP Description		
1101 1102 1103 1104 1105	A-7520-307-A O MOUNTED CIRCUIT BOARD, SW-220 A-7612-315-A S PAD ASSY, SHOULDER A-7612-385-A S SHOE (B) ASSY, V 1-124-440-11 S CAP, ELECT 3300MF 1-223-165-00 S RES, ADJ, WIREWOUND 10K "PEDES		2 3-729-095-01 o SHIELD, FINGER Serial No. UP TO 11657 (UC) UP TO 30885 (J) UP TO 42003 (EK) 3-178-382-01 o SHIELD (BOTTON). SHIELD
1106 1107 1108 1109 1110	1-249-404-00 s RES, CARBON (SMALL) 82 1-507-980-21 s JACK "EARPHONE" 1-553-448-00 s SWITCH, TOGGLE "POWER" 1-553-856-00 s SWITCH, KEYBOARD "CTDM" 1-554-355-00 s SWITCH, TOGGLE "VTR SAVE/ST. BY	1153 1154 " 1155	Serial No. 11658 AND HIGHER (UC) 30886 AND HIGHER (J) 42004 AND HIGHER (EK) 3 3-734-732-01 o HOLDER, CONDENSER 4 3-742-011-01 s SCREW, 1/4, 3/8 CONVERSION 5 3-742-012-01 s SHOE (B), CAMERA
1111 1112 1113 1114 1115	1-554-356-00 s SWITCH, TOGGLE "WHITE BAL" 1-554-400-00 s SWITCH, TOGGLE "GAIN" "OUTPUT/ 1-561-233-21 s CONNECTOR, FEMALE 6P "REMOTE" 1-561-781-11 s CONNECTOR, BNC "TC IN" "TC OUT 1-561-781-21 s CONNECTOR, BNC "GENLOCK VIDEO	1158 " 1159	3-742-016-01 o BRACKET, REMOTE 3-742-029-01 o GUIDE, PC BOARD 3-742-034-01 s RUBBER (EJ), DROP PROTECTION 3-742-035-01 o STOPPER, ORNAMENTAL PANEL
1116 1117 1118 1119 1120	1-562-221-21 s CONNECTOR, 12P MALE "LENS" 1-563-029-21 s CONNECTOR, 3P FEMALE "MIC IN" 1-563-971-11 s CONNECTOR, 20P "PB ADAPTOR" 1-565-764-11 s CONNECTOR ASSY, BNC "VIDEO OUT 1-625-554-13 o PRINTED CIRCUIT BOARD, VR-77	1163 1163	2 X-3166-761-3 o FINGER (SW) ASSY, SHIELD 3-729-013-01 o SCREW (M1.4X1.6) WASHER HEAD (+P) Serial No. 11658 AND HIGHER (UC) 30886 AND HIGHER (J)
1121 1122 1123 1124 1125	1-627-593-11 o PRINTED CIRCUIT BOARD, HP-43 1-634-967-11 o PRINTED CIRCUIT BOARD, CN-400 1-806-504-11 s VARISTOR ERZ-C05DK820 1-940-619-11 o HARNESS, SUB (ADP) 3-166-603-01 s SCREW (2.6), +B	1164 1165 1166 1167 1168	7-621-775-20 s SCREW +B 2.6X5 3-725-261-01 o SPACER, SHOULDER PAD A-8267-202-B o FRAME SUB ASSY, BOTTOM 3-182-155-01 s WASHER, INSULATING 3-182-156-01 s BUSHING, INSULATING
1126 1127 1128 1129 1130	3-646-184-00 s SPACER 3-664-519-00 o NUT (M4) 3-687-116-01 o WASHER (4), STOPPER 3-711-703-01 o STOPPER 3-711-715-01 o RUBBER, SHIELD		
1131 1132 1133 1134 1135	3-722-462-03 o FRAME, BNC 3-722-471-06 o FRAME, BOTTOM 3-723-096-01 o OVER, BREAKER 3-723-097-01 o FOOT, RUBBER 3-724-720-01 o GUIDE (LOWER REAR), PC BOARD		
1136 1137 1138 1139 1140	3-724-730-02 s RUBBER (EA), DROP PROTECTION 3-724-731-02 s RUBBER (PE), DROP PROTECTION 3-724-734-04 o PANEL, MAIN SWITCH ORNAMENTAL 3-724-735-01 o GUIDE (LOWER FRONT), PC BOARD 3-725-226-01 o PARTITION (L)		
1141 1142 1143 1144 1145	3-725-243-01 s RUBBER (CAM), DROP PROTECTION 3-725-297-01 o SPACER (LENS) 3-729-002-01 s FILTER, VENTILATION 3-729-003-01 o FILTER (LEFT SIDE PLATE 2) 3-729-004-01 s FILTER (BOTTOM 2)		

1151 3-729-092-01 o BRACKET (A)

3-729-005-01 s FILTER (BNC)
3-729-006-01 s SHEET (AUDIO), DROP PROTECTION
3-729-007-01 o PLATE, ORNAMENTAL, TOGGLE SW
3-729-072-01 s SCREW, +K (4X8)
3-729-076-11 s SCREW (+B) (2X4)

REAR FRAME

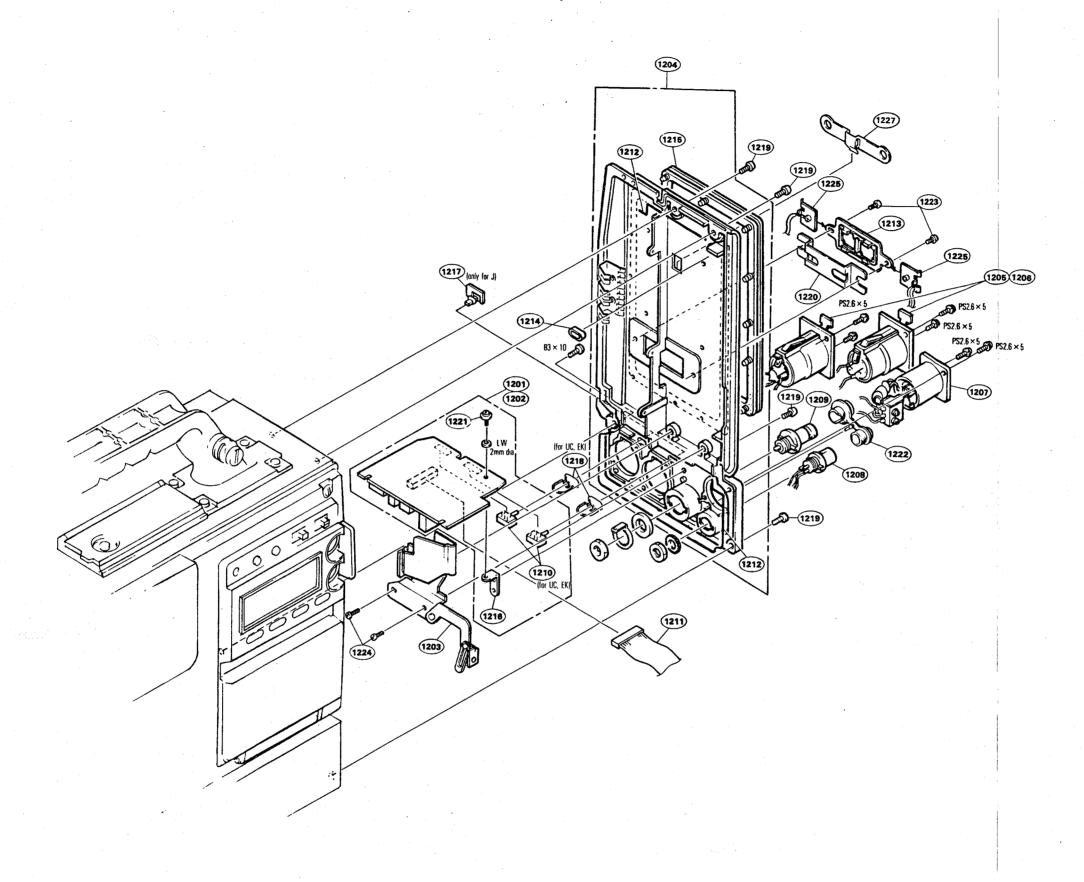
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Part No.
                         SP Description
No.
1201 AA-6723-360-A O MOUNTED CIRCUIT BOARD, PS-162J (J)
Serial No. UP TO 30910 (J)
AA-8271-735-A O MOUNTED CIRCUIT BOARD, PS-162B (J)
                              Serial No. 30911 AND HIGHER (J)
1202 △A-6723-368-A o MOUNTED CIRCUIT BOARD,
                                                        PS-162 (UC, EK)
                             Serial No. UP TO 11712 (UC)
                                           UP TO 42095 (EK)
       △A-8271-736-A o MOUNTED CIRCUIT BOARD,
                                                        PS-162B(UC, EK)
                             Serial No. 11713 AND HIGHER (UC)
                                           42096 AND HIGHER (EK)
       X-3722-373-1 o HINGE (L) ASSY, SIDE PLATE
1203
         X-3722-374-6 o FRAME SUB ASSY, REAR
1204
        1-563-029-21 s CONNECTOR, 3P MALE (UC, EK)
"AUDIO IN CH1/CH2"
1205
         1-563-030-21 o CONNECTOR, 3P FEMALE (J) "AUDIO IN CH1/CH2"
1206
         1-564-603-11 s CONNECTOR (WITH DC SW), 4P "DC IN"
         1-565-072-11 s CONNECTOR, 4P "DC IN"
1-565-764-11 s CONNECTOR ASSY, BNC "VIDEO OUT"
1-570-610-11 s SWITCH, TOGGLE (UC, EK) "PHANTOM"
1208
1209
1210
         1-625-895-11 s PRINTED CIRCUIT BOARD, FL-57
                            Serial No. UP TO 11712 (UC)
UP TO 30910 (J)
                                           UP TO 42095 (EK)
         1-625-895-21 s PRINTED CIRCUIT BOARD, FL-57
                            Serial No. 11713 AND HIGHER (UC)
                                           30911 AND HIGHER (J)
                                           42096 AND HIGHER (EK)
        3-711-715-01 o RUBBER, SHIELD
3-718-028-01 o HOLDER, TERMINAL
3-722-484-01 o SPACER, SW
1212
1213
1214
         3-724-723-01 s RUBBER (BATT), DROP PROTECTION
1215
         3-724-752-01 o HOLDER (PS), PC BOARD
1216
        3-725-227-01 o HOLDER (FS), FC BURKING

3-725-227-01 o BUSHING (P48) (J)

3-725-239-01 s RUBBER (P48), DROP PROTECTION

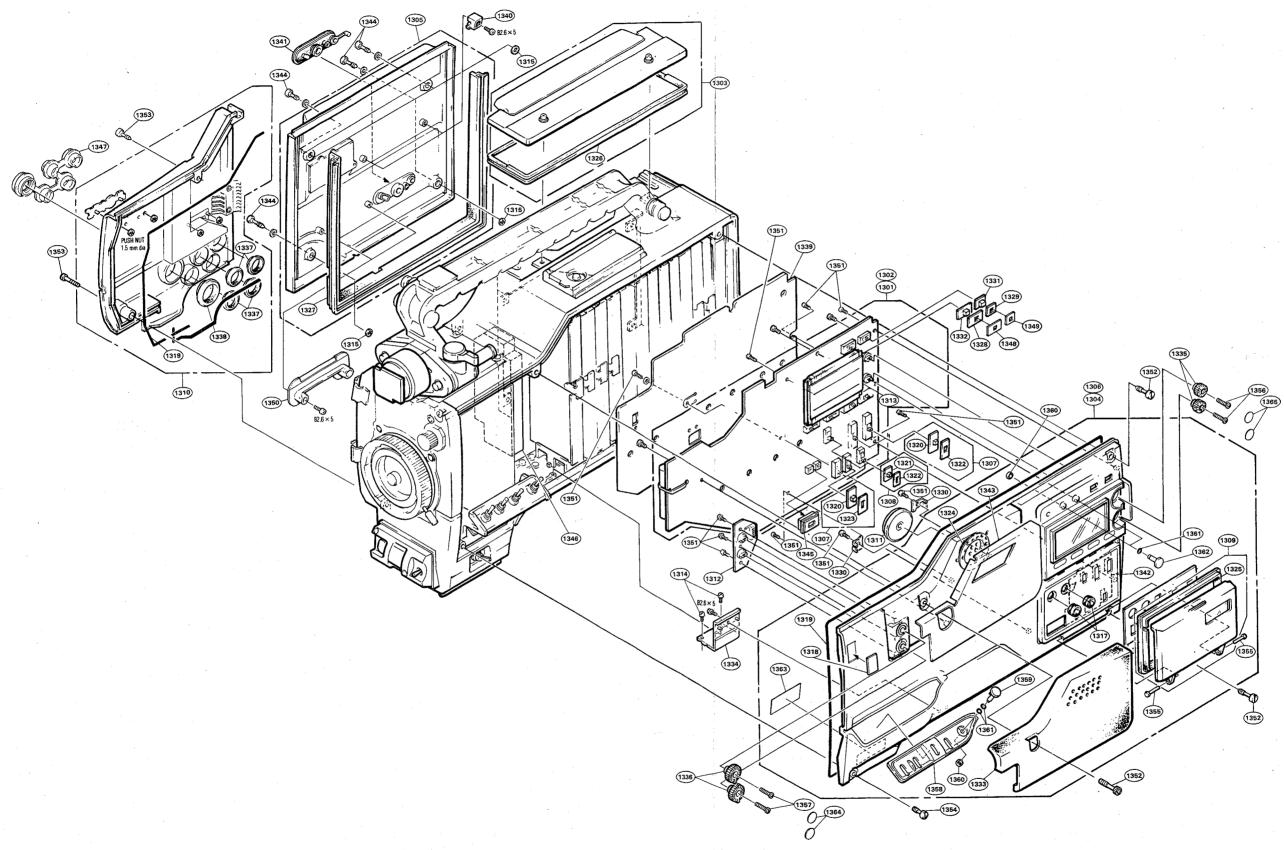
3-725-295-11 s SCREW, (+) (B3)

3-729-009-04 o INSULATOR (BATT)
1217
1218
1219
1220
         3-729-021-01 s SCREW (M2X5)
3-729-035-01 s COVER, REAR CONNECTOR
1221
1222
         3-729-076-01 s SCREW (+B) (2X3)
1223
         3-729-076-11 s SCREW (+B) (2X4)
1224
        3-717-996-04 s TERMINAL
1225
1227
         3-178-798-01 o CASE, CONNECTOR
                            Serial No. 13136 AND HIGHER (UC)
                                           32011 AND HIGHER (J)
                                           44161 AND HIGHER (EK)
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BVW-300A (J,UC) BVW-300AP (EK)

SIDE PLATE



SIDE PLATE

No.	Part No. SP Description
1301	A-6713-327-A o MOUNTED CIRCUIT BOARD, TC-48AP (EK) Serial No. UP TO 42095 (EK) A-8271-734-A o MOUNTED CIRCUIT BOARD, TC-48BP (EK)
1302	Serial No. 42096 AND HIGHER A-6713-368-A O MOUNTED CIRCUIT BOARD, TC-48A(J, UC) Serial No. UP TO 11712 (UC)
	UP TO 30910 (J) A-8271-733-A o MOUNTED CIRCUIT BOARD, TC-48B(J, UC) Serial No. 11713 AND HIGHER (UC) 30911 AND HIGHER (J)
1303 1304 1305	X-3722-376-6 o PANEL ASSY, TOP X-3167-430-1 o PLATE SUB ASSY, SIDE, RIGHT (J, UC) X-3722-399-6 o LID SUB ASSY
1307	X-3722-415-6 o PLATE SUB ASSY (PAL), SIDE (EK) X-3722-416-1 s KNOB (A) (ORANGE) ASSY, SW X-3722-417-1 s KNOB (C) (ORANGE) ASSY, SW X-3722-440-2 o DOOR ASSY, ORNAMENTAL X-3734-704-4 o PLATE ASSY, SIDE, LEFT
1312 1313	1-503-293-00 s SPEAKER 1-625-553-13 o PRINTED CIRCUIT BOARD, VR-70 1-808-502-11 s LCD-MODULE 3-166-603-01 s SCREW (2.6), +B 3-669-596-00 s WASHER (2.3), STOPPER
1317 1318 1319	3-676-088-00 o SHAFT, KNOB 3-676-244-00 s COVER, SWITCH 3-678-607-02 o LABEL, FILTER 3-711-715-01 o RUBBER, SHIELD 3-717-900-01 s KNOB (A) (TC), SW
1322	3-717-901-01 s KNOB (C) (TC), SW 3-717-902-21 o PLATE, ORNAMENTAL 3-717-902-31 o PLATE, ORNAMENTAL 3-724-716-02 s SHEET, DROP PROTECTION 3-724-718-03 s RUBBER (DOOR), DROP PROTECTION
1328 1329	3-724-721-02 s RUBBER (TOP), DROP PROTECTION 3-724-722-02 s RUBBER (CA), DROP PROTECTION 3-724-725-02 s RUBBER (SLIDE), DROP PROTECTION 3-724-725-12 s RUBBER (SLIDE), DROP PROTECTION 3-724-726-01 o HOLDER, SPEAKER
1333 1334	3-724-727-01 s KNOB (LI), SW 3-724-728-01 s KNOB (DL), SW 3-724-733-01 o PAD, SIDE 3-724-749-02 o HINGE (R), SIDE PLATE 3-171-996-03 s KNOB (R), VR
1338 1339	3-171-997-03 s KNOB (F), VR 3-724-760-01 s RUBBER (BNC), DROP PROTECTION 3-724-761-01 s RUBBER (PB), DROP PROTECTION 3-725-225-01 o INSULATOR (TC) 3-725-286-01 o STOPPER, CASSETTE
1342 1343	3-725-287-01 s RUBBER, DROP PROTECTION 3-725-290-03 s RUBBER (SW), DROP PROTECTION 3-725-293-03 s TAPE (3), ADHESIVE, SIDE PAD 3-725-295-11 s SCREW, (+) (B3) 3-729-010-01 s RUBBER (VITC), DROP PROTECTION
1347 1348	3-729-023-01 o FILTER (MAIN) 3-729-036-01 o COVER, SIDE CONNECTOR 3-729-044-01 s SHEET, SLIDE 3-729-044-01 s SHEET, SLIDE

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1351 3-729-076-01 s SCREW (+B) (2X3)
1352 3-729-091-01 s SCREW (M4X17.5)
1353 3-729-091-21 s SCREW (M4X22.5)
1354 3-729-091-31 s SCREW (M4X10)
            3-743-800-01 o SHAFT, DOOR
1355
1356
            3-172-754-21 s SCREW, PRECISION +P1.7X5
           3-172-754-21 S SCREW, PRECISION +P1.7X5
3-172-754-21 S SCREW, PRECISION +P1.7X5
3-724-748-03 O PLATE, ORNAMENTAL, CAMERA SW
3-724-747-02 O KNOB, CTD
1357
1358
1359
            3-724-757-02 s RETAINER, SW, PUSH
1360
1361
            3-724-758-02 s RUBBER (PUSH), DROP PROTECTION
            3-724-759-03 s PUSH (SW)
1362
           3-176-374-01 o LABEL, SWITCH
3-178-098-01 s SHEET (VR), INSULATING
Serial No. 11693 AND HIGHER (UC)
1363
1364
                                                        30886 AND HIGHER (J)
                                                        42051 AND HIGHER (EK)
1365 3-178-098-11 s SHEET (TR), INSULATING
Serial No. 11693 AND HIGHER (UC)
30886 AND HIGHER (J)
42051 AND HIGHER (EK)
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1350 3-729-052-03 o BRACKET, TAPE

/ Serial No. UP TO 12999(UC)

31999(T)

VIEWFINDER (43999(EK) Part No. SP Description 1401 AA-7403-132-A O VF COMPLETE ASSY (J, UC) 3-722-485-01 o ROLLER, SLIDE 1451 1402 AA-7403-133-A O VF COMPLETE ASSY (EK) 3-722-486-01 s KNOB 1452 1403 AA-7513-642-B O MOUNTED CIRCUIT BOARD, VF-32 3-722-488-05 o BRACKET, PC BOARD 1453 3-722-494-01 o BRACKET, VR SW 1404 A-7612-320-B o GUIDE ASSY, VF SLIDE 1454 A-7612-389-B s TUBE SUB ASSY, VF 3-723-002-14 o VF (MAIN) 1455 3-723-069-02 o PROTECTOR, MC 1406 A-7612-390-D o HOLDER ASSY, MICROPHONE 1456 X-3710-050-5 o VF (MAIN) BLOCK ASSY 3-723-073-01 o CUSHION, MIRROR 1457 1407 X-3722-366-8 o TUBE ASSY, VF ROTARY GUIDE 3-723-079-01 s EYE CUP 1408 1458 X-3722-368-5 o LID ASSY, VF 3-724-744-03 o WASHER 1459 1409 3-724-745-01 o SHEET (C), INSULATING X-3722-426-1 o BRACKET ASSY, SW 1410 1460 X-3722-436-1 o LENS ASSY 1461 3-724-746-01 o SHEET (B), INSULATING 1411 3-725-220-02 o TUBE (A), CRT X-3722-437-2 o BRACKET ASSY (C), VR. SW 1462 1412 1-238-290-11 s RES, VAR, CARBON 1k "CONTRAST" 1-238-293-11 s RES, VAR, CARBON 10k "BRIGHT" 3-725-221-04 o TUBE (B), CRT 1413 1463 3-725-257-01 o BOSS 1414 1464 3-725-258-03 o STOPPER, ROTARY 1-238-296-11 s RES, VAR, CARBON 10k
"PEAKING" "AUDIO LEVEL CH-1" 1465 1466 3-725-275-01 o LABEL, LOCK 1416 <u>М</u>1-546-066-61 s 1.5" CRT ASSY 3-725-277-01 s KNOB (B) 1467 3-725-278-01 s PACKING (SW), DROP PROTECTION 3-725-279-01 s PACKING (VR), DROP PROTECTION 3-725-280-01 s PACKING (A), DROP PROTECTION 1417 1-570-984-11 s SWITCH, TOGGLE 1468 "AUDIO IND" "ZEBRA MARKER"

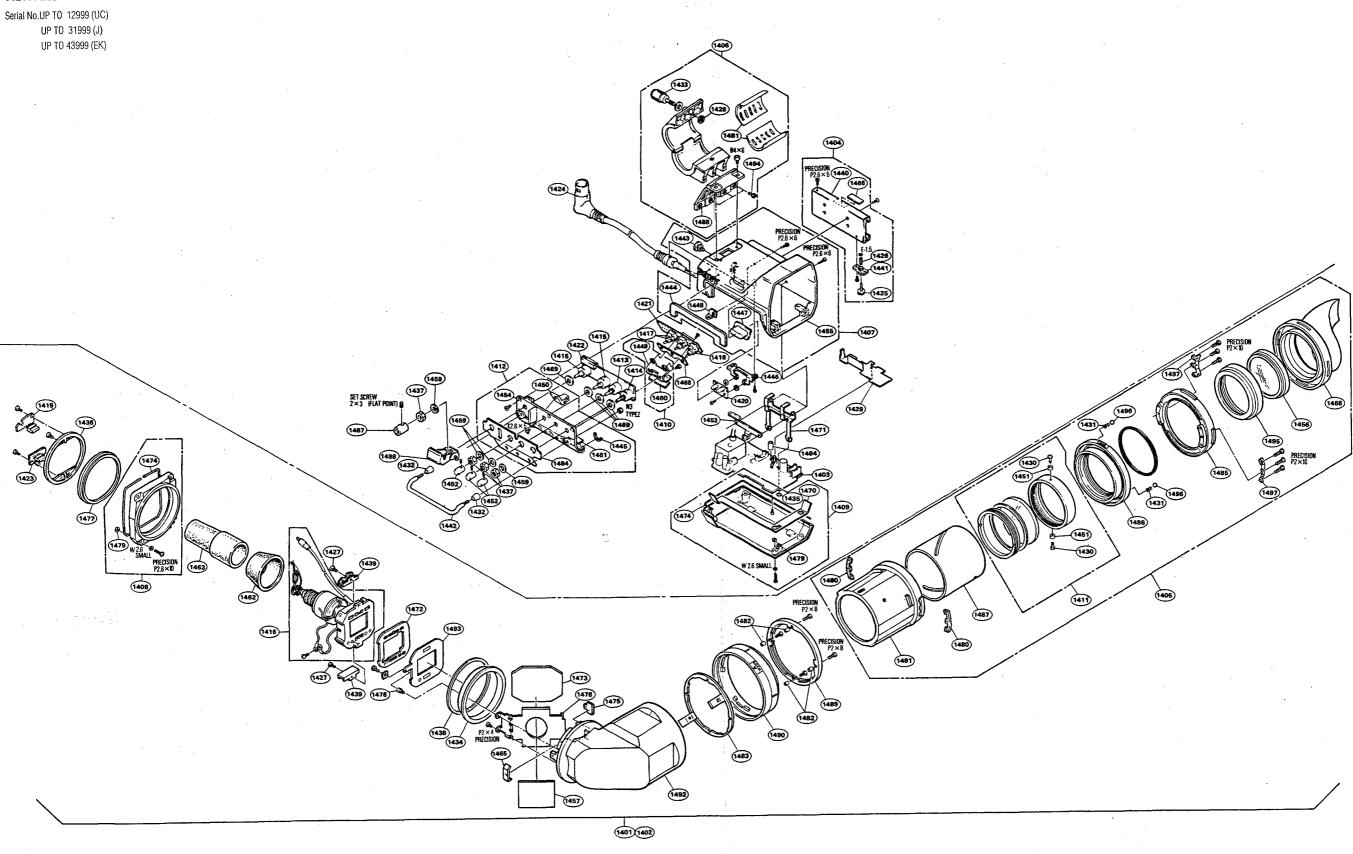
1-570-985-11 s SWITCH, TOGGLE "TALLY" 1469 1470 1-625-086-14 o PRINTED CIRCUIT BOARD, LP-40 1419 1-625-087-11 o PRINTED CIRCUIT BOARD, LP-42 1471 3-725-282-03 o HINGE, PC BOARD 1420 3-729-062-01 o SPACER, MASK 1472 1-625-088-13 o PRINTED CIRCUIT BOARD, SW-260 1473 3-729-099-01 o MIRROR 1421 3-729-701-21 s RUBBER (CARBON), CONDUCTIVE 1-625-089-11 o PRINTED CIRCUIT BOARD, VR-67 1422 1474 3-734-739-01 o SHEET, INSULATING, MASK 1-635-204-12 o PRINTED CIRCUIT BOARD, LP-58 1475 1423 1-945-970-11 s HARNESS (VF CABLE) 1424 2-277-457-00 s KNOB, STOPPER 3-734-740-01 o SUPPORT 1425 3-734-760-01 o RING 1477 3-742-001-02 o HOLDER (2), MIRROR 2-277-466-01 s SPRING, COMPRESSION 1478 3-742-004-01 s RING, NYLON 3-165-162-01 s SCREW (+P2.6X5) (TYPE1) 1479 1427 3-742-038-01 o NUT (2), PLATE 3-165-904-01 s WASHER, SCREW STOPPER 1480 1428 3-166-307-01 o PLATE, SHIELD 1429 3-742-039-01 s CUSHION, MICROPHONE 3-335-207-01 s SHAFT, MOTOR 1481 1430 3-742-045-01 o TUBE 1482 3-742-046-01 o BRACKET, SAFETY 3-573-150-00 o SPRING, COMPRESSION 1483 1431 3-742-051-01 o LABEL 3-657-654-00 o RING, ORNAMENTAL 1484 1432 3-742-052-01 o HOLDER, EYE CUP 3-657-657-00 s SCREW (M5) 1485 1433 3-672-241-00 O RING (B), SLEEVE 3-672-250-00 O RING (M2.6), O 1434 1486 3-742-053-01 o RING 1435 1487 3-742-054-01 o TUBE 3-742-057-03 o BASE, MICROPHONE HOLDER 1436 3-680-595-01 o SUPPORT, ROTARY 1488 3-742-058-01 o RING, FIXED 3-685-104-01 s NUT (M6), CONTROL 1489 1437 3-685-118-02 o SPACER, RING 1490 3-742-059-01 o RING, HOLD 1438 3-685-129-01 o SPRING (N), LEAF, VF 1439 3-710-007-02 s GUIDE, VF SLIDE 1491 3-742-060-01 o HOLDER, RING 1440 3-742-062-01 o TUBE (2), VF 1492 1493 3-742-069-01 o PLATE (C), DISPLAY 3-710-008-02 s HOUSING, STOPPER 1441 3-742-074-01 s SCREW (3X6) 3-716-342-02 o GUARD, CONNECTOR 1494 1442 3-720-946-01 o PIN, MICROPHONE STOPPER 1495 3-742-075-01 o HOLDER, FILTER 1443 3-720-977-01 o PACKING (A), DROP PROTECTION 3-720-978-01 s PACKING (B), DROP PROTECTION 1444 7-671-158-01 s BALL, STAINLESS (2.5 DIA) 1445 3-176-414-01 o RETAINER, RING 1497 X-3166-692-1 s GUARD ASSY, VR 3-722-474-05 o BRACKET, LP 1498 1446 3-722-475-04 o COVER (A) 1447 3-722-476-01 o NUT, PLATE 1448 3-722-477-01 o BRACKET, SW 1449 1450 3-722-481-04 o HOLDER, PC BOARD

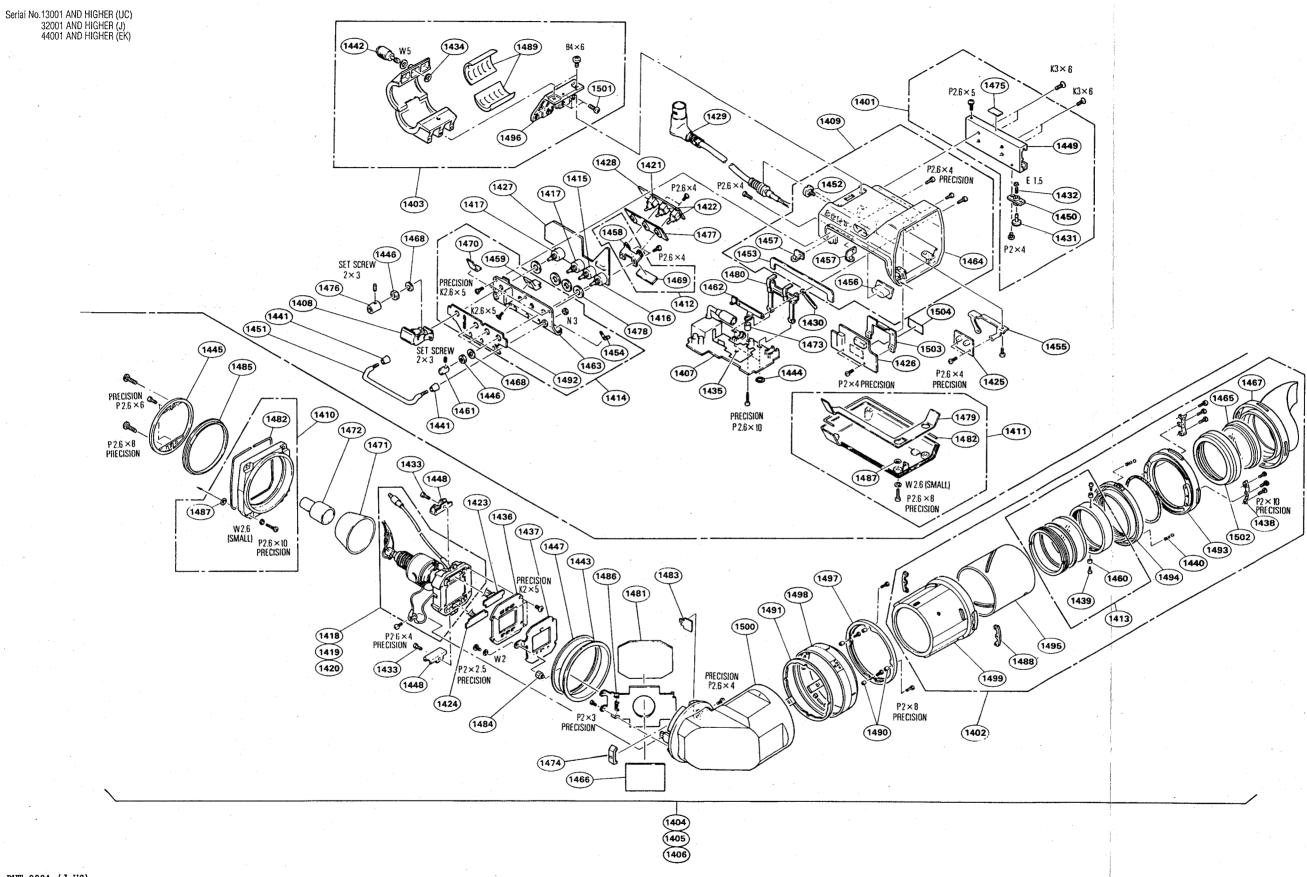
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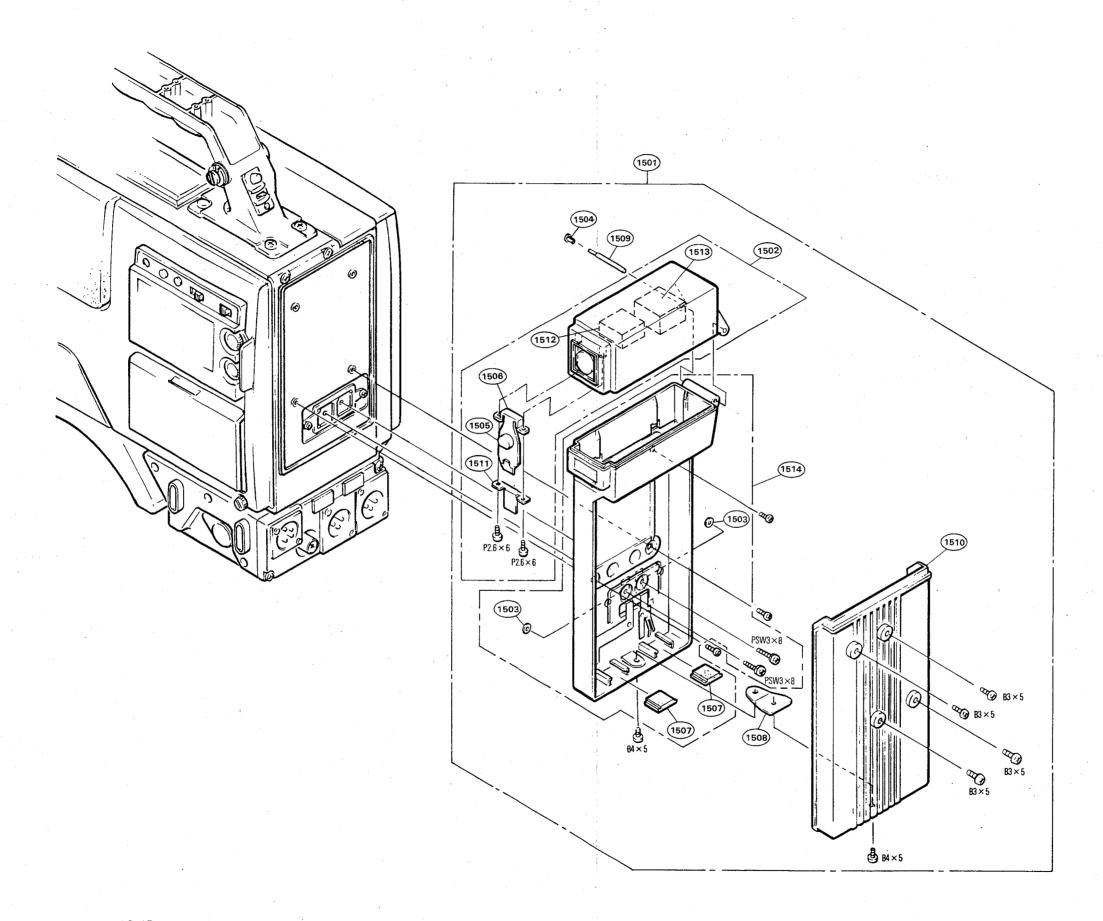
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1456 3-722-475-04 o COVER (A) 3-722-476-01 o NUT, PLATE

----/ Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) VIEWFINDER 44001 AND HIGHER(EK) Part No. SP Description No. 1458 3-722-477-01 o BRACKET, SW 1401 A-7612-320-D o GUIDE ASSY, VF SLIDE 1459 3-722-481-04 o HOLDER, PC BOARD 1402 A-7612-389-B s TUBE SUB ASSY, VF 1403 A-7612-390-D o HOLDER ASSY, MICROPHONE 1460 3-722-485-01 o ROLLER, SLIDE 1404 AA-8260-215-A o VF COMPLETE ASSY (UC) 1461 3-722-486-01 s KNOB 1405 AA-8260-217-A o VF COMPLETE ASSY (J) 1462 3-720-974-04 o BRACKET (2), PC BOARD 1463 3-722-494-01 o BRACKET, VR SW 1406 △A-8260-219-A o VF COMPLETE ASSY (EK) 1464 3-723-002-14 o VF (MAIN) 1407 AA-8271-332-A O MOUNTED CIRCUIT BOARD, VF-50 1465 3-723-069-02 o PROTECTOR, MC 1408 X-3166-692-1 s GUARD ASSY, VR 1409 X-3710-050-5 o VF (MAIN) BLOCK ASSY 1466 3-723-073-01 o CUSHION, MIRROR 1410 A-3722-366-8 o TUBE ASSY, VF ROTARY GUIDE 1467 3-723-079-01 s EYE CUP 1468 3-724-744-03 o WASHER 1411 X-3722-368-5 o LIO ASSY, VF 1469 3-724-745-01 o SHEET (C), INSULATING 1412 X-3722-426-1 o BRACKET ASSY, SW 1470 3-724-746-01 o SHEET (B), INSULATING 1413 X-3722-436-1 o LENS ASSY 1471 3-725-220-02 o TUBE (A), CRT 1414 X-3722-437-2 o BRACKET ASSY (C), VR. SW 1415 1-238-290-11 s RES, VAR, CARBON 1k "CONTORAST" 1472 3-725-221-04 o TUBE (B), CRT 1416 1-238-293-11 s RES, VAR, CARBON 10k "BRIGHT" 1473 3-725-257-01 o BOSS 1474 3-725-258-03 o STOPPER, ROTARY 1417 1-238-296-11 s RES, VAR, CARBON 10k "PEAKING" 1475 3-725-275-01 o LABEL, LOCK 1418 ▲1-546-092-11 s 1.5" CRT ASSY 1476 3-725-277-01 s KNOB (B) 1421 1-570-984-11 s SWITCH, TOGGLE "ZEBRA" AUDIO IND" 1477 3-725-278-01 s PACKING (SW), DROP PROTECTION 1422 1-570-985-11 s SWITCH, TOGGLE "TALLY" 1478 3-725-279-01 s PACKING (VR), DROP PROTECTION 1423 1-643-704-11 o PRINTED CIRCUIT BOARD, LP-64 1479 3-725-280-01 s PACKING (A), DROP PROTECTION 1424 1-643-705-11 o PRINTED CIRCUIT BOARD, LP-65 1480 3-725-282-03 o HINGE, PC BOARD 1-643-706-11 o PRINTED CIRCUIT BOARD, LP-66 1425 1-643-707-11 o PRINTED CIRCUIT BOARD, CN-771 1481 3-729-099-01 o MIRROR 1426 1482 3-729-701-21 s RUBBER (CARBON), CONDUCTIVE 1-643-708-11 o PRINTED CIRCUIT BOARD, VR-149 1483 3-734-739-01 o SHEET, INSULATING, MASK 1428 1-643-709-11 o PRINTED CIRCUIT BOARD, SW-562 1484 3-734-740-01 o SUPPORT 1-950-039-11 s HARNESS (VF CABLE-2) 1429 2-277-426-01 o CLAMP 1485 3-734-760-01 o RING 1430 1486 3-742-001-02 o HOLDER (2), MIRROR 2-277-457-00 s KNOB, STOPPER 1431 1487 3-742-004-01 s RING, NYLON 2-277-465-01 s SPRING, COMPRESSION 1432 1488 3-742-038-01 o NUT (2), PLATE 3-165-162-01 s SCREW (+P2.6X5) (TYPE1) 3-742-039-01 s CUSHION, MICROPHONE 1434 3-165-904-01 s WASHER, SCREW STOPPER 1489 3-742-045-01 o TUBE 3-166-307-01 o PLATE, SHIELD 1490 1435 1491 3-742-046-01 o BRACKET, SAFETY 3-176-022-03 o SPACER (B), MASK 1436 1492 3-742-051-01 o LABEL 3-176-023-01 o PLATE (339), DISPLAY 1437 1493 3-742-052-01 o HOLDER, EYE CUP 1438 3-176-414-01 o RETAINER, RING 3-742-053-01 o RING 1494 1439 3-335-207-01 s SHAFT, MOTOR 1495 3-742-054-01 o TUBE 1440 3-573-150-00 o SPRING, COMPRESSION 3-742-057-03 o HOLDER (BASE), MICROPHONE 3-657-654-00 o RING, ORNAMENTAL 1496 1441 1497 3-742-058-01 o RING, FIXED 1442 3-657-657-00 o SCREW (M5) 1443 3-672-241-00 o RING (B), SLEEVE 1498 3-742-059-01 o RING, HOLD 1499 3-742-060-01 o HOLDER, RING 1444 3-672-250-00 o RING (M2.6), 0 1500 3-742-062-01 o TUBE (2), VF 3-680-595-01 o SUPPORT, ROTARY 1446 3-685-104-01 s NUT (M6), CONTOROL 1501 3-742-074-01 s SCREW (3X6) 1447 3-685-118-02 o SPACER, RING 1502 3-742-075-01 o HOLDER, FILTER 1503 3-742-205-02 o BRACKET, CN 1448 3-685-129-01 o SPRING (N), LEAF, VF 1504 3-177-365-01 o SHEET (CN), INSULATING 1449 3-710-007-02 s GUIDE, VF SLIDE 1450 3-710-008-02 s HOUSING, STOPPER 1451 3-716-342-02 o GUARD, CONNECTOR 1452 3-720-946-01 o PIN, MICROPHONE STOPPER 1453 3-720-977-01 o PACKING (A), DROP PROTECTION 3-720-978-01 s PACKING (B), DROP PROTECTION 3-722-474-05 o BRACKET, LP





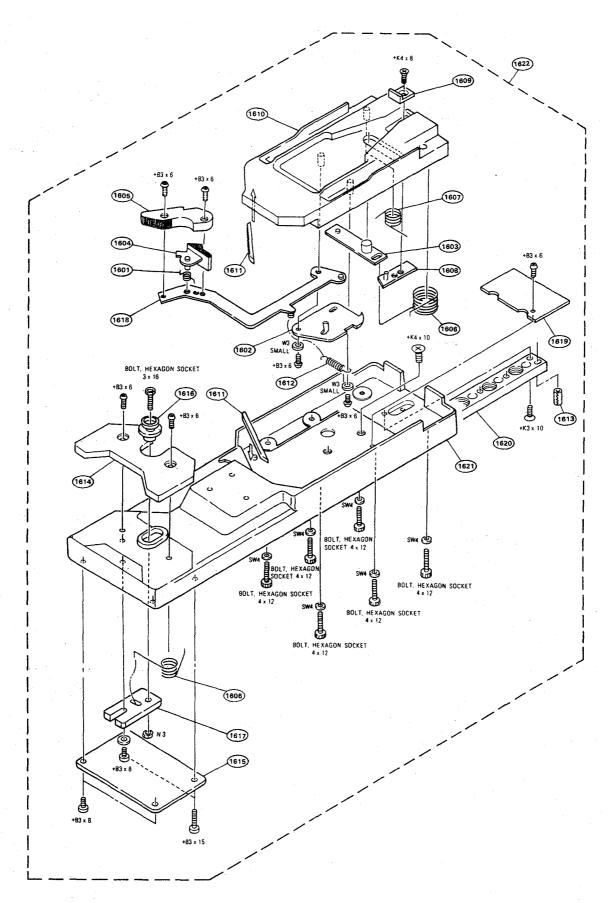


BATERRY CASE

No.	Part No. SP Description
1501	A-6703-651-C s CASE ASSY, BATTERY
1502	X-3717-701-3 o COVER ASSY, TOP, BATTERY
1503	3-669-596-00 s WASHER (2,3), STOPPER
1504	3-703-075-00 s CAP 2, SHAFT
1505	3-717-702-01 s PUSH BUTTON
1506	3-717-703-03 s HOOK
1507	3-717-707-02 o CUSHION (2)
1508	3-717-708-01 o RETAINER, CASE
1509	3-717-709-01 o SHAFT, LID
1510	3-718-040-01 o COVER (1), BATTERY CASE
1511	3-718-172-01 o RETAINER, HOOK
1512	3-729-720-01 o CUSHION (LEFT)
1513	3-729-721-01 o CUSHION (RIGHT)
1514	X-3717-742-5 o CASE SUB ASSY. BATTERY

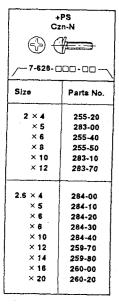
TRIPOD ADAPTOR

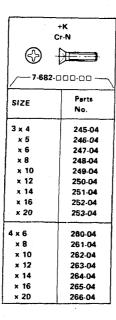
No.	Part No. SP Description
1601	2-381-631-01 o SPRING
1602	2-381-632-01 o ARM, LOCKER
1603	
1604	2-381-635-01 o LEVER, LOCK
1605	
1606	2-381-637-01 o SPRING
1607	2-381-638-01 o SPRING
1608	2-381-640-01 o DOG
1609	2-381-641-01 o COLLAR
1610	2-381-642-01 o MOUNT
1611	2-381-648-01 o INSULATOR, KNOB
1612	2-381-652-01 o SPRING, TENSION
	2-381-654-01 o PIN, SPRING
	3-678-704-00 o SPACER
1615	3-720-906-01 o LID (S), REAR
1616	3-720-907-01 o PIN (S), REAR
1617	3-720-908-01 o TABLE (S), PIN, REAR
1618	3-720-909-01 o KNOB CRANK
1619	3-720-910-01 o SHEET, SLIDE
1620	3-720-911-01 o BASE, TRIPOD FITTING SCREW
1621	3-720-912-01 o FRAME (S)
1622	OPTIONAL ACCESSORY: TRIPOD ADAPTOR "VCT-14"



SCREWS

SCREWS

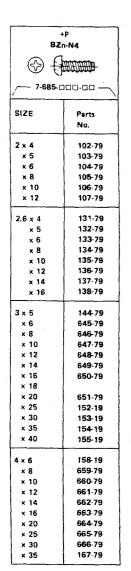


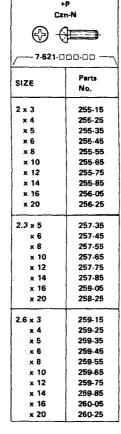


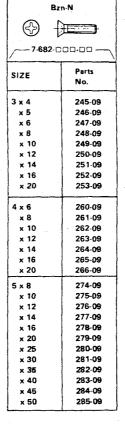
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Size	Parts No.
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×5	772-20
× 6	772-30
× 8 × 10	772-40 772-50
× 12	772-60
× 14	772-70
× 15	772-80
× 20	== '
2.6 × 3	775-00
∞ × 4	775-10
× 5	775-20
× 6	773-95
× 8 × 10	775-40 775-50
× 12	775-60
× 14	775-70
× 16	775-80
× 20	775-90

7-621-000-00-00-00-00-00-00-00-00-00-00-00-0	,	+B Cr-N	
SIZE Parts No. 2 x 3 772-08 x 4 772-18 x 5 771-06 x 6 772-38 x 8 772-48 x 10 772-58 x 12 772-68 x 14 772-78 x 16 772-88 x 20 2.6 x 3 775-08 x 4 773-86 x 5 770-97 x 6 770-67 x 8 770-99 x 10 773-87 x 10 775-88 x 14 775-78 x 16 775-88	€ €		
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Perts No. 772-08 772-18 772-18 772-18 772-28 772-48 772-48 772-58 772-68 772-68 772-78 772-88 772-88 772-88 772-88 773-86 770-87 770-67 770-67 770-68 775-78 775-68 775-78 775-88		_		
Perts No. 772-08 772-18 772-18 771-06 771-06 772-38 772-48 771-06 772-58 772-68 772-68 772-78 772-88 773-86 770-87 770-67 770-67 770-67 770-67 770-68 775-68 775-68 775-68 775-68 775-68 775-68 775-68 775-68 775-78 775-88 775-78 775-88 775-78 775-88 775-78 775-88 773-81 775-88 773-81 775-88 773-81 775-88 773-81 775-88 773-81 775-88 775-78 775-88) (₩ €	
No. SIZE No. No. 772-08 3 x 6 947-01 772-18 x 8 948-01 771-06 x 10 949-01 772-38 x 12 950-01 772-58 x 16 952-01 772-68 x 20 953-01 772-78 x 25 954-01 772-88 x 30 955-01 x 35 956-01 x 40 957-01 770-67 x 12 963-01 770-67 x 12 963-01 770-67 x 12 963-01 770-67 x 12 963-01 770-68 x 20 966-01 775-68 x 20 966-01 775-88 x 20 966-01 775-88 x 25 967-01 775-88 x 25 967-01 775-88 x 30 968-01 773-91 x 35 969-01	521-0	00-00-	7 7-682 .□	00-00
772-18			SIZE	
775-08 773-86 770-87 770-67 770-67 770-99 × 14 773-87 775-68 × 20 775-78 775-88 × 25 775-88 × 25 775-88 × 25 775-88 × 30 775-88 × 30 773-91 × 35 969-01		772-18 771-06 772-38 772-48 772-58 772-68 772-78	x 8 x 10 x 12 x 14 x 16 x 20 x 25 x 30 x 35	948-01 949-01 950-01 951-01 952-01 953-01 954-01 955-01
1 3/001		773-86 770-87 770-67 770-99 773-87 775-68 775-78 775-88	4 x 8 x 10 x 12 x 14 x 16 x 20 x 25 x 30 x 35	961-01 962-01 963-01 964-01 965-01 966-01 967-01 968-01 969-01
			x 40	970-01





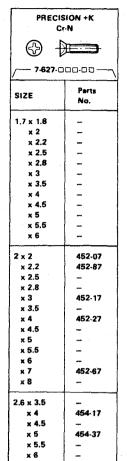


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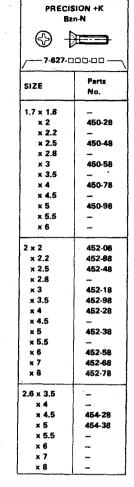
	-
7-682-0	
SIZE	Parts No.
3 × 3	544-09
× 4	545-09
×5	546-09
×6	547-09
× 8	548-09
× 10	549-09
x 12	550-09
x 14	551-09
× 16 × 20	552-09
x 20 x 30	553-09 555-09
× 30	555-09
4 × 4	558-09
×5	559-09
×6	560-09
×8	561-09
x 10	562-09
x 12	563-09
x 14	564-09
x 16	565-09
x 20	566-09
5 x 8	574-09
x 10	575-09
x 12	576-09
x 14	577-09
x 16	578-09
× 20	579-09

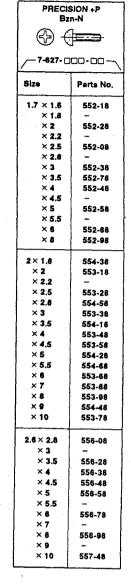
Bzn-N

1	+B Cr-N	
(F) (
/ ─7-682- □	00-00	
Size	Parts No.	
3 × 3 × 4	544-04 545-04	
× 4 × 5	545-04	
× 6	547-04	
× 8	548-04	
× 10	549-04	
× 12	550-04	
× 14 × 16	551-04 552-04	
× 20	553-04	
4 × 4	558-04	
× 5	559-04	
× 6	560-04	
× 8 × 10	561-04 562-04	
× 12	563-04	
× 14	564-04	
× 16	565-04	
× 20	566-04	
× 25	567-04	
× 30 × 35	568-04 569-04	
× 35 × 40	570-04	
× 45	571-04	
× 50	572-04	
5 × 8	574-04	
×10	575-04	
× 12	576-04	
× 14	577-04	
× 16	578-04	
× 20	579-04	
× 25 × 30	580-04 581-04	
^ 30	301-04	



x 7





7-827- □	
Size	Parts No.
1.7 × 1.6	 _ _ _ _ _ _ _
× 1.8	
× 2	552-27
× 2.2	552-87
× 2.5 × 2.8	552-07
× 3	552-37
× 3.5	- "
× 4	552-47
× 4.5	552-67
× 5 × 5.5	552-57 557-07
× 6	552-77
× 8	552-97
2×1.8	554.05
2 × 1.5 × 2	554-37 553-17
× 2.2	554-07
× 2.5	553-27
× 2.8	_
× 3	553-37
× 3.5 × 4	554-17 553-47
× 4.5	553-57
× 5	553-67
× 5.5	-
× 5	554-27
×7 ×8	553-87
× 8 × 10	553-97 553-77
	<i>-</i>
2.6 × 2.8	556-07
× 3 × 3.5	
× 4.	556-37
× 4.5	_
× 5	556-57
× 5.5	-
× 6	556-77
× 7 × 8	EER 07
× 8	556-97 -
× 10	557-47

PRECISION +P

BOLT, HEXAGON SOCKET SNCM6 BZn-N4							
7-683-C	100-00						
SIZE	Parts No.						
3 x 4	401-04						
3 x 5	402-04						
3 x 6	403-04						
3 x 8	404-04						
3 x 10	405-04						
3 x 12	406-04						
3 x 14	407-04						
3 x 16	408-04						
3 x 20	410-04						
4 x 5	417-04						
4 x 6	418-04						
4 x 8	419-04						
4 x 10	420-04						
4 x 12	421-04						
4 x 14	422-04						
4 x 16	423-04						
4 x 20	425-04						
4 x 25	427-04						
5 x 8	434-04						
5 x 10	435-04						
5 x 12	436-04						
5 x 14	437-04						
5 x 16	438-04						
5 x 20	440-04						
5 x 25	442-04						
5 x 30	444-04						
5 x 50	447-04						
6 x 10	452-04						
6 x 12	453-04						
6 x 14	454-04						
6 x 16	455-04						
6 x 20	457-04						
6 x 25	459-04						
6 x 30	461-04						
6 x 35	463-04						
6 x 40	465-04						
6 x 45	486-04						
6 x 55	468-04						
8 x 12	470-04						
8 x 14	471-04						
8 x 16	472-04						
8 x 20	473-04						
8 x 25	474-04						
8 x 30	475-04						
8 x 35	476-04						
8 x 40	477-04						
8 x 45	478-04						
8 x 50	479-04						

HEXAGON SET SCREW (FLAT) SNCM6-PD						
◆ €						
7-621-000-00						
SIZE	Parts No.					
2 x 2.5	731-08					
2 x 3	732-08					
2 x 4	733-08					
2 x 5	-					
2 x 6	-					
2.6 x 3	737-08					
2.6 x 4	738-08					
2.6 x 5	739-08					
2.6 x 6	740-08					

BVW-300A (J,UC) BVW-300AP (EK)

CAPACITOR, CHIP CERAMIC

Part No. SP Description

1-163-083-00 s CAP, CHIP CERANIC 1pF +-0.25pF 50V 1-163-085-00 s CAP, CHIP CERANIC 2pF +-0.25pF 50V 1-163-087-00 s CAP, CHIP CERANIC 4pF +-0.25pF 50V 1-163-089-00 s CAP, CHIP CERAMIC 6pF 1-163-091-00 s CAP, CHIP CERAMIC 8pF +-0.5pF 50V +-0.5pF 50V 1-163-093-00 s CAP, CHIP CERANIC 10pF 5% 50V 1-163-097-00 s CAP, CHIP CERAMIC 15pF 5% 50V 1-163-101-00 s CAP, CHIP CERANIC 1-163-105-00 s CAP, CHIP CERANIC 22pF 5% 50V 33pF 5% 50V 1-163-109-00 s CAP, CHIP CERAMIC 47pF 5% 50V 1-163-113-00 s CAP, CHIP CERAMIC 68pF 1-163-117-00 s CAP, CHIP CERAMIC 100p 5% 50V 5% 50V 100pF 1-163-121-00 s CAP, CHIP CERAMIC 150pF 5% 50V 1-163-125-00 s CAP, CHIP CERANIC 220pF 1-163-129-00 s CAP, CHIP CERANIC 330pF 5% 507 5% 50V 1-163-133-00 s CAP, CHIP CERAMIC 470pF 5% 50V 1-163-137-00 s CAP, CHIP CERANIC 680pF 1-163-141-00 s CAP, CHIP CERANIC 1000pF 5% 50V 5% 50V 1-163-145-00 s CAP, CHIP CERAMIC 1500pF 10% 50V 1-164-161-11 s CAP, CHIP CERAMIC 2200pF 10% 100V 1-164-182-11 s CAP, CHIP CERAMIC 3300pF 10% 100V 1-163-017-00 s CAP, CHIP CERAMIC 4700pF 10% 50V 1-163-019-00 s CAP, CHIP CERANIC 6800pF 1-164-232-11 s CAP, CHIP CERANIC 0.01 10% 50V 20% 100V 1-163-023-00 s CAP, CHIP CERANIC 0.015 10% 50V 1-163-034-00 s CAP, CHIP CERAMIC 0.033 1-163-035-00 s CAP, CHIP CERANIC 0.047 50V 1-163-036-00 s CAP, CHIP CERAMIC 0,068 507 1-163-038-00 s CAP, CHIP CERANIC 0.1 50Y

CAPACITOR, TANTALUM

Part No. SP Description

1	13	1-	39	16-	-00	s	CAP,	TANT	ALUM	0.	01	20%	35 V
					-00	s	CAP,	TANT			015	20%	35V
1-	13	1-	38	8-	-00	s	CAP,	TANT	ALUM	0.	022	20%	35V
					-00	s	CAP,	TANT	ALUM	0.	033	20%	35V
1-	13	1-	4(0.	-00	s	CAP,	TANT	ALUM	0.	047	20%	35V
					-00	s	CAP,	TANT			068	10%	35V
					-00	S	CAP,	TANT		0.		10%	35V
					-00		CAP,	TANT		0.		10%	35V
					-00	s	CAP,	TANT		0.		10%	35V
1-	13	1-	34	4	-00	s	CAP,	TANI	ALUM	0.	33	10%	35V
1 _	13	1	11	2-	-00	s	CAP,	TANT	ALUM	0.	47	20%	20V
					-00		CAP,	TANT		0.		10%	35V
					-00	s	CAP,	TANT		0.		20%	25 V
					-11	s	CAP,	TANT		0.		10%	
					-00	s	CAP,	TANT		1.		20%	20V
					-00		CAP,	TANT		1.		10%	35 V
					-00	s	CAP,	TANT		1.		20%	16V
					-00	S	CAP,	TANT		1.		10%	35V
					-00	S	CAP,	TANT		2.		20%	10V
1-	13.	l	36	1-	-00	S	CAP,	TANT	ALUM	2.	2	10%	20 V
1 –	13	1	٩/	۹-	-00	٠.	CAP,	TANT	ALIM	2.	2	10%	35V
					-00	s	CAP,	TANT		3.		20%	6. 3V
					-00	s	CAP,	TANT		3.		10%	167
					-00	s	CAP,	TANT		3.		10%	25V
					-00	s	CAP,	TANT		3.	-	10%	35V
					-00	s	CAP,	TANT		4.		20%	3. 15V
					-00	s	CAP,	TANT		4.		10%	10V
					-00	s	CAP,	TANT		4.		10%	20V
					-00	S	CAP,	TANT		4.		10%	35V
1-	13	1-	38	32	-00	s	CAP,	TANT	ALUM	6.	8	10%	6.3V
1-	1 থ	1	37	n-	-00	s	CAP,	TANT	MILIA	6.	8	10%	16V
					-00	s	CAP,	TANT		6.		10%	25V
					-00	s	CAP,	TANT		6.	-	10%	35V
					-00	s	CAP,	TANT		10		10%	3. 15V
					-00	s	CAP,	TANT		10		10%	
					-00	s	CAP,	TANT		10		10%	20 V
					-00	S	CAP,	TANT		10		10%	35V
					-00	s	CAP,	TANT		15		10%	6.3V
					-00	s	CAP,	TANT		15		10%	16V
1-	13	1-	36	60-	-00	S	CAP,	TANT	ALUM	15		10%	25V
1	12	1 -	20	11-	-00	s	CAP,	TANT	ALUM	22		10%	3. 15V
					-00 -00	S	CAP.	TANT		22		10%	10V
				_	-00 -nn	s	CAP,	TANT		22		10%	20V
					-00 -00	S	CAP,	TANT		33		10%	6.3Y
					-00	S	CAP,	TANT		33		10%	16V
1	10	•	U	4	vv	J	VIII ,	1.111.1		UU		104	101
1-	13	1-	38	3-	-00	s	CAP,	TANT	ALUM	47		10%	3. 15V
					-00	s	CAP,	TANT	ALUM	47		10%	107
1-	13	1-	38	8-	-00	s	CAP,	TANT	ALUM	68		10%	6.3V
1-	13	1-	39)5·	-00	s	CAP,	TANT	ALUM	10	0	10%	3. 15V

RESISTOR, CHIP

Part No.

1-216-295-00 s RES, CHIP 0 5% 1/10W 1-216-298-00 s RES, CHIP 2.2 5% 1/10W 1-216-302-00 s RES, CHIP 2.7 5% 1/10W 1-216-304-11 s RES, CHIP 3.3 5% 1/10W 1-216-306-11 s RES, CHIP 3.9 5% 1/10W 1-216-308-00 s RES, CHIP 4.7 5% 1/10W

SP Description

1-216-309-00 s RES, CHIP 5.6 5% 1/10W 1-216-311-00 s RES, CHIP 6.8 5% 1/10W 1-216-313-00 s RES, CHIP 8.2 5% 1/10W 1-216-001-00 s RES, CHIP 10 5% 1/10W

1-216-003-11 s RES, CHIP 12 5% 1/10W 1-216-005-00 s RES, CHIP 15 5% 1/10W 1-216-007-00 s RES, CHIP 18 5% 1/10W 1-216-009-00 s RES, CHIP 22 5% 1/10W 1-216-011-00 s RES, CHIP 27 5% 1/10W

1-216-013-00 s RES, CHIP 33 5% 1/10W 1-216-015-00 s RES, CHIP 39 5% 1/10W 1-216-017-00 s RES, CHIP 47 5% 1/10W 1-216-019-00 s RES, CHIP 56 5% 1/10W 1-216-021-00 s RES, CHIP 68 5% 1/10W

1-216-023-00 s RES, CHIP 82 5% 1/10W 1-216-025-00 s RES, CHIP 100 5% 1/10W 1-216-027-00 s RES, CHIP 120 5% 1/10W

1-216-027-00 s RES, CHIP 120 5% 1/10W 1-216-029-00 s RES, CHIP 150 5% 1/10W 1-216-031-00 s RES, CHIP 180 5% 1/10W

1-216-033-00 s RES, CHIP 220 5% 1/10W 1-216-035-00 s RES, CHIP 270 5% 1/10W 1-216-037-00 s RES, CHIP 330 5% 1/10W 1-216-039-00 s RES, CHIP 390 5% 1/10W

1-216-043-00 s RES, CHIP 470 5% 1/10W

1-216-045-00 s RES, CHIP 680 5% 1/10W 1-216-047-00 s RES, CHIP 820 5% 1/10W 1-216-049-00 s RES, CHIP 1k 5% 1/10W 1-216-051-00 s RES, CHIP 1.2k 5% 1/10W

1-216-053-00 s RES, CHIP 1.5k 5% 1/10W 1-216-055-00 s RES, CHIP 1.8k 5% 1/10W 1-216-057-00 s RES, CHIP 2.2k 5% 1/10W 1-216-059-00 s RES, CHIP 2.7k 5% 1/10W

1-216-059-00 s RES, CHIP 2.7k 5% 1/10W 1-216-061-00 s RES, CHIP 3.3k 5% 1/10W

1-216-063-00 s RES, CHIP 3.9k 5% 1/10W 1-216-065-00 s RES, CHIP 4.7k 5% 1/10W 1-216-067-00 s RES, CHIP 5.6k 5% 1/10W 1-216-069-00 s RES, CHIP 6.8k 5% 1/10W

1-216-069-00 s RES, CHIP 6.8k 5% 1/10W 1-216-071-00 s RES, CHIP 8.2k 5% 1/10W

1-216-073-00 s RES, CHIP 10k 5% 1/10W 1-216-075-00 s RES, CHIP 12k 5% 1/10W 1-216-077-00 s RES, CHIP 15k 5% 1/10W 1-216-079-00 s RES, CHIP 18k 5% 1/10W

1-216-081-00 s RES, CHIP 22k 5% 1/10W 1-216-083-00 s RES, CHIP 27k 5% 1/10W 1-216-085-00 s RES, CHIP 27k 5% 1/10W

1-216-083-00 s RES, CHIP 27k 5% 1/10W 1-216-085-00 s RES, CHIP 33k 5% 1/10W 1-216-748-11 s RES, CHIP 39k 5% 1/10W 1-216-089-00 s RES, CHIP 47k 5% 1/10W 1-216-091-00 s RES, CHIP 56k 5% 1/10W

RESISTOR, CHIP

Part No. SP Description

1-216-093-00 s RES, CHIP 68k 5% 1/10W 1-216-095-00 s RES, CHIP 82k 5% 1/10W 1-216-097-00 s RES, CHIP 100k 5% 1/10W 1-216-099-00 s RES, CHIP 120k 5% 1/10W 1-216-101-00 s RES, CHIP 150k 5% 1/10W 1-216-103-00 s RES, CHIP 180k 5% 1/10W 1-216-105-00 s RES, CHIP 220k 5% 1/10W 1-216-107-00 s RES, CHIP 270k 5% 1/10W 1-216-109-00 s RES, CHIP 330k 5% 1/10W 1-216-111-00 s RES, CHIP 390k 5% 1/10W 470k 5% 1/10W 1-216-113-00 s RES, CHIP 1-216-115-00 s RES, CHIP 560k 5% 1/10W 1-216-117-00 s RES, CHIP 680k 5% 1/10W 1-216-119-00 s RES, CHIP 820k 5% 1/10W 1-216-121-00 s RES, CHIP 1.0M 5% 1/10W 1-216-123-11 s RES, CHIP 1.2M 5% 1/10W 1-216-125-00 s RES, CHIP 1.5M 5% 1/10W 1-216-127-11 s RES, CHIP 1.8M 5% 1/10W 1-216-129-00 s RES, CHIP 2.2M 5% 1/10W 1-216-131-11 s RES, CHIP 2.7M 5% 1/10W

1-216-133-00 s RES, CHIP 3.3M 5% 1/10W

AFM-6P I	BOARD	(AFM-6P BOARD)		
Ref. No.			Ref. No.	
	Parts No. SP Description	,	or Q' ty	Parts No. SP Description
1pc	A-6713-350-A o MOUNTED CIRCUIT BOARD, AFM-6P		CV2	1-141-369-52 s CAP, CHIP TRIMMER
1pc	3-724-705-01 o PLATE (AFM-6), ORNAMENTAL		CV3	1-141-369-52 s CAP, CHIP TRIMMER
1pc	3-724-753-01 o RING		CV4	1-141-369-52 s CAP, CHIP TRIMMER
5pcs	3-729-061-01 s SCREW (M2X4.5) (TYPE 1)		CV101	1-141-369-52 s CAP, CHIP TRIMMER
1pc	7-688-001-12 s W 2, MIDDLE		CV102	1-141-369-52 s CAP, CHIP TRIMMER
C1	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V		CV103	1-141-369-52 s CAP, CHIP TRIMMER
C2	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V		CV104	1-141-369-52 s CAP, CHIP TRIMMER
C3	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V			
C4	1-163-227-11 s CERAMIC 10PF 5% 50V		D201	8-719-800-76 s DIODE 1SS226
C6	1-163-235-11 s CERAMIC 22PF 5% 50V		D402	8-719-800-76 s DIODE 1SS226
			D501	8-719-800-76 s DIODE 1SS226
C7	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		D502	8-719-800-76 s DIODE 1SS226
C8	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		D503	8-719-800-76 s DIODE 1SS226
C18	1-163-235-11 s CERANIC 22PF 5% 50V		DE04	9 710 900 76 a DIODE 100996
C101	1-164-005-11 s CERANIC, CHIP 0.47uF 25V		D504	8-719-800-76 s DIODE 1SS226 8-719-400-18 s DIODE MA152WK
C105	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V		D505 D506	8-719-104-34 s DIODE 1S2836
C106	1-163-235-11 s CERAMIC 22PF 5% 50V		טטטע	0 113 104 04 3 D1000 102000
C106 C108	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V		FL1	1-236-019-11 s FILTER, LOW-PASS
C108	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V			
C117	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V		ICl	8-741-152-44 s IC SBX1524-52
C120	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V			8-759-209-15 s IC TC4SU69F
0120	1 101 000 11 0 Obminato, Only 0. 41di 201		IC3	8-759-209-15 s IC TC4SU69F
C201	1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V		IC4	8-759-209-15 s IC TC4SU69F
C401	1-126-394-11 s ELECT, CHIP 10uF 20% 16V	·	IC401	8-759-100-94 s IC UPC358G2
C402	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V			
C403	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		10001	1-236-003-11 s FILTER, LOW-PASS
C405	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		IC502	8-752-009-90 s IC CX20099
			IC503	8-759-403-92 s IC AN6391NS
C501	1-126-394-11 s ELECT, CHIP 10uF 20% 16V		IC504	8-759-403-92 s IC AN6391NS
C502	1-126-394-11 s ELECT, CHIP 10uF 20% 16V		IC505	8-759-209-15 s IC TC4SU69F
C503	1-126-394-11 s ELECT, CHIP 10uF 20% 16V		T0500	O DEO DOS OS TO NINTERON
C504	1-126-394-11 s ELECT, CHIP 10uF 20% 16V		IC506	8-759-700-38 s IC NJM4559M
C529	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		IC507	8-759-700-38 s IC NJM4559M
0500	1 100 000 11 PI DOW OWYD 00 P 000 0 00		IC601	8-759-100-96 s IC UPC4558G2
C530	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		L1	1-410-393-11 s INDUCTOR CHIP 100uH
	1-135-072-21 s TANTALUM, CHIP 0. 22uF 10% 35V		L2	1-410-393-11 s INDUCTOR CHIP 100uH
C543 C544	1-135-157-21 s TANTAL 10uF 10% 6.3V 1-135-136-21 s TANTALUM 6.8uF 10% 35V		L3	1-410-658-31 s INDUCTOR CHIP 220uH
C544 C545	1-164-148-11 s CERAMIC, CHIP 0.0082uF 10% 50V		L4	1-410-381-11 s INDUCTOR CHIP 10uH
0343	1 104 140 11 5 CERAMIC, CHII 0.00024F 10% 50Y		L5	1-410-389-31 s INDUCTOR CHIP 47uH
C546	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V			
C547	1-163-088-00 s CERAMIC, CHIP 5PF 50V		L6	1-408-779-31 s INDUCTOR CHIP 15uH 1-410-393-11 s INDUCTOR CHIP 100uH
C548	1-164-147-11 s CERAMIC, CHIP 0.0047uF 10% 50V		L101	1-410-393-11 s INDUCTOR CHIP 100uH
C549	1-136-160-00 s FILM 0.039uF 5% 50V		L102	1-410-393-11 s INDUCTOR CHIP 100uH
C551	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V			
			Q1	8-729-905-12 s TRANSISTOR DTA144EU
C552	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		Q2	8-729-905-18 s TRANSISTOR DTC144EU
C553	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		Q3	8-729-905-18 s TRANSISTOR DTC144EU
C554	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		Q4	8-729-117-32 s TRANSISTOR 2SC4177
C557	1-135-072-21 s TANTALUM, CHIP 0. 22uF 10% 35V		Q5	8-729-117-32 s TRANSISTOR 2SC4177
C558	1-135-157-21 s TANTAL 10uF 10% 6.3V		ne	8-729-117-16 s TRANSISTOR 2SA1611-M6
CEEO	1_195_196_91 a TANTALIN C 0-D 100 0FV		Q6 - Q7	8-729-117-16 S TRANSISTOR 2SATOTI-MO 8-729-117-72 S TRANSISTOR 2SC4178
C559	1-135-136-21 s TANTALUM 6.8uF 10% 35V 1-164-148-11 s CERAMIC, CHIP 0.0082uF 10% 50V		Q8	8-729-117-16 s TRANSISTOR 2504176
C560 C561	1-163-088-00 s CERAMIC, CHIP 5PF 50V		Q9	8-729-117-72 s TRANSISTOR 2SC4178
C562	1-164-147-11 s CERAMIC, CHIP 5PF 5UV			8-729-117-72 s TRANSISTOR 2SC4178
C562 C565	1-136-160-00 s FILM 0.039uF 5% 50V			
5500	104 04 0 1171 N OOUI ON OUT		Q102	8-729-905-12 s TRANSISTOR DTA144EU
C566	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V		Q103	8-729-117-72 s TRANSISTOR 2SC4178
C567	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		Q104	8-729-117-72 s TRANSISTOR 2SC4178
C568	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V		Q105	8-729-117-72 s TRANSISTOR 2SC4178
			Q106	8-729-117-72 s TRANSISTOR 2SC4178
CN1	1-566-960-11 o CONNECTOR, 50P, MALE			
CN2	1-566-388-11 s CONNECTOR, 8P, MALE		Q107	8-729-117-72 s TRANSISTOR 2SC4178
	· · · · · · · · · · · · · · · · · · ·		Q108	8-729-117-72 s TRANSISTOR 2SC4178
CNJ2	1-565-413-11 o PLUG, SHORTING		Q109	8-729-109-44 s TRANSISTOR 2SK94
			Q110	8-729-109-44 s TRANSISTOR 2SK94
CV1	1-141-369-52 s CAP, CHIP TRIMMER		Q111	8-729-109-44 s TRANSISTOR 2SK94

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

		· · · · · · · · · · · · · · · · · · ·
Ref. No. or Q'ty	Parts No. SP Description	Ref.No. or Q'ty Parts No. SP Description
Q112	8-729-109-44 s TRANSISTOR 2SK94	R107 1-216-809-11 s METAL, CHIP 100 5% 1/16W
Q112 Q113	8-729-117-72 s TRANSISTOR 25X94	R108 1-216-825-11 s METAL, CHIP 2. 2K 5% 1/16W
Q115	8-729-905-12 s TRANSISTOR DTA144EU	R109 1-216-825-11 s METAL, CHIP 2. 2K 5% 1/16W
Q113 Q121	8-729-109-44 s TRANSISTOR 2SK94	R110 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
		R111 1-216-805-11 s METAL, CHIP 47 5% 1/16W
Q122	8-729-109-44 s TRANSISTOR 2SK94	KIII 1-210-000-11 S MEIAL, CHII 4: 5% 1/10%
Q123	8-729-109-44 s TRANSISTOR 2SK94	R112 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
Q124	8-729-109-44 s TRANSISTOR 2SK94	
Q155	8-729-117-32 s TRANSISTOR 2SC4177	R114 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
Q156	8-729-117-16 s TRANSISTOR 2SA1611-M6	R116 1-216-817-11 s METAL, CHIP 470 5% 1/16W
Q157	9-790-117-99 & TRANSISTOR 990/4177	P117 1-216-845-11 c METAL CHIP LOOK 5% 1/16W
	8-729-109-44 s TRANSISTOR 25K94 8-729-109-44 s TRANSISTOR 25K94	
Q158	8-729-109-44 s TRANSISTOR 2SK94	R118 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
Q159		mile I blo old if a marile, and lead of a
Q160	8-729-109-44 s TRANSISTOR 2SK94	R120 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
Q161	8-729-109-44 s TRANSISTOR 2SK94	R121 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
Q170	8-729-117-16 s TRANSISTOR 2SA1611-M6	R122 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
0001	0 H00 100 00	D100 1 010 045 11 - METAL CUID 100V EW 1/16W
Q201	8-729-106-68 s TRANSISTOR 2SC1615A-GP 8-729-106-68 s TRANSISTOR 2SC1615A-GP	R123 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R124 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
Q202		R124 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R126 1-216-817-11 s METAL, CHIP 470 5% 1/16W
Q401	8-729-807-50 s TRANSISTOR 2SD1623	R127 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
Q402 Q501	8-729-905-18 s TRANSISTOR DTC144EU	R128 1-216-817-11 s METAL, CHIP 470 5% 1/16W
6201	8-729-209-07 s TRANSISTOR 2SC4213-B	1 210 011 11 8 mb1hb, Onli 410 3% 1/10
Q502	8-729-209-07 s TRANSISTOR 2SC4213-B	R129 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
Q503	8-729-209-07 s TRANSISTOR 2SC4213-B	R130 1-216-817-11 s METAL, CHIP 470 5% 1/16W
4000	0 120 200 01 G IRRINGISION EGOTETO D	R131 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
R1	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R132 1-216-817-11 s METAL, CHIP 470 5% 1/16W
R2	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R133 1-216-845-11 s NETAL, CHIP 100K 5% 1/16W
R3	1-216-832-11 s METAL, CHIP 8,2K 5% 1/16W	
R4	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R134 1-216-817-11 s METAL, CHIP 470 5% 1/16W
R5	1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W	R135 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
		R136 1-216-840-11 s METAL, CHIP 39K 5% 1/16W
R6	1-216-835-11 s METAL, CHIP 15K 5% 1/16W	R139 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R7	1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W	R140 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R8	1-216-680-11 s METAL, CHIP 16K 0.5% 1/10W	Dill 1 010 014 11 VDWH OVER OND FACE 1/10W
R10	1-216-822-11 s METAL, CHIP 1. 2K 5% 1/16W	R141 1-216-814-11 s METAL, CHIP 270 5% 1/16W
RII	1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W	R142 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R143 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R12	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R144 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
R13	1-216-680-11 s METAL, CHIP 16K 0.5% 1/10W 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W 1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-827-11 s METAL, CHIP 15K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R145 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R14	1-216-827-11 s METAL, CHIP 3. 3K 5% 1/16W	RITO I DIO ON II O MDINDY ONLI DON ON IT ION
R15	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R146 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
R16	1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R147 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
		R148 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
R17	1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W	R149 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R18	1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W	R150 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R19	1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W	DATE OF THE STATE
R20	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R151 1-216-797-11 s METAL, CHIP 10 5% 1/16W
R21	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R152 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W
poo ·	1-016-000-11 a METAL OUTD 10F 5W 1/10W	R153 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W
R22	1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R154 1-216-797-11 s METAL, CHIP 10 5% 1/16W R155 1-216-789-11 s METAL CHIP 2, 2 5% 1/16W
R23 R24	1-216-838-11 s METAL, CHIP 27K 5% 1/16W	1 210 100 11 5 Mbinb Chir 2, 2 3/6 1/10#
R25	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W	R156 1-216-789-11 s METAL CHIP 2.2 5% 1/16W
R26	1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W	R157 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
n.L.o	I DIV ODD II O MDINDA ONII 1, ON DA 1/100	R158 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R27	1-216-839-11 s METAL, CHIP 33K 5% 1/16W	R159 1-216-789-11 s METAL CHIP 2.2 5% 1/16W
R28	1-216-837-11 s METAL, CHIP 22K 5% 1/16W	R160 1-216-789-11 s METAL CHIP 2.2 5% 1/16W
R29	1-216-840-11 s METAL, CHIP 39K 5% 1/16W	
R32	1-216-817-11 s METAL, CHIP 470 5% 1/16W	R161 1-216-864-11 s METAL, CHIP 0-OHM
R33	1-216-818-11 s METAL, CHIP 560 5% 1/16W	R162 1-216-864-11 s METAL, CHIP 0-0HM
D101	1 010 00F 11 HDMLY SWYD O OF FALL (1977)	R163 1-216-815-11 s METAL, CHIP 330 5% 1/16W
R101	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R164 1-216-809-11 s METAL, CHIP 100 5% 1/16W
R102	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R165 1-216-809-11 s METAL, CHIP 100 5% 1/16W
R103	1-218-288-11 s METAL, CHIP 300 5% 1/16W	R201 1-216-817-11 s METAL, CHIP 470 5% 1/16W
R104 R105	1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R201 1-216-817-11 s METAL, CHIP 470 5% 1/16W R202 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
WI OO	1 510 020 11 9 mc10m2 Outi 6.5% 0/0 1/10%	R203 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R106	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R205 1-216-820-11 s METAL, CHIP 820 5% 1/16W

(AFM-6P BOARD)

Ref. No. SP Description or Q'ty Parts No. 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R206 R401 R402 R403 R404 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R405 R406 R503 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R504 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R505 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R506 R507 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R508 1-218-302-11 s METAL CHIP 8.2K 1% 1/16W R509 1-218-301-11 s METAL CHIP 3.9K 1% 1/16W R510 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R511 R512 R517 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R518 1-218-300-11 s METAL, CHIP 3.3K 1% 1/16W R541 1-218-299-11 s METAL, CHIP 2.7K 1% 1/16W R542 1-218-300-11 s METAL, CHIP 3.9K 1% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W 1-218-301-11 s METAL CHIP 3.9K 1% 1/16W R543 R544 R546 R547 1-218-304-11 s METAL CHIP 12K 1% 1/16W 1-218-297-11 s METAL, CHIP 680 1% 1/16W 1-218-298-11 s METAL, CHIP 2.2K 1% 1/16W R548 R549 1-218-299-11 s METAL, CHIP 2.7K 1% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R550 R551 R552 R553 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-218-299-11 s METAL, CHIP 2.7K 1% 1/16W 1-218-300-11 s METAL, CHIP 3.3K 1% 1/16W R554 R555 1-218-300-11 s METAL, CHIP 3.3K 1% 1/16W 1-218-304-11 s METAL CHIP 12K 1% 1/16W R556 R557 1-218-301-11 s METAL CHIP 3.9K 1% 1/16W R558 R560 1-218-298-11 s METAL, CHIP 2.2K 1% 1/16W 1-218-297-11 s METAL, CHIP 680 1% 1/16W 1-218-299-11 s METAL, CHIP 2.7K 1% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R561 R562 R563 R564 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W R565 R572 R573 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W 1-216-848-11 s METAL, CHIP 180K 5% 1/16W R574 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W R575 R576 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W R577 R578 1-218-318-11 s METAL, CHIP 5.6K 1% 1/16W 1-218-304-11 s METAL CHIP 12K 1% 1/16W R579 R580 1-218-298-11 s METAL, CHIP 2.2K 1% 1/16W 1-218-322-11 s METAL, CHIP 47K 1% 1/16W 1-218-322-11 s METAL, CHIP 47K 1% 1/16W R581 R582 1-218-315-11 s METAL, CHIP 1K 1% 1/16W R583 R584 1-218-303-11 s METAL, CHIP 10K 1% 1/16W 1-218-318-11 s METAL, CHIP 5.6K 1% 1/16W 1-218-304-11 s METAL CHIP 12K 1% 1/16W R585 R586 1-218-298-11 s METAL, CHIP 2.2K 1% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R587 R588

(AFM-6P BOARD)

Ref. No. or Q'ty	Parts No. SP Description
R589	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R590	1-218-315-11 s METAL, CHIP 1K 1% 1/16W
R591	1-218-303-11 s METAL, CHIP 10K 1% 1/16W
R601	1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
R602	1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
ROUL	1-Z10-004-11 S mbint, Onit 5, or 6, 5% 1/10"
R603	1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
R604	1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
R605	1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
R606	1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
R607	1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
KUU1	1-210-051 11 S meline, only 1. or 0. 5% 1/10%
R608	1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
RV1	1-230-868-11 s RES, ADJ, METAL 2.2K
RV2	1-230-869-11 s RES, ADJ, METAL 4.7K
RV3	1-230-868-11 s RES, ADJ, METAL 2.2K
	1-230-874-11 s RES, ADJ, METAL 100K
RV4	
RV5	1-230-869-11 s RES, ADJ, NETAL 4.7K
RV6	1-237-034-11 s RES, ADJ, METAL 2K
RV7	1-237-036-11 s RES, ADJ, METAL 10K
RV8	1-230-871-11 s RES, ADJ, METAL 22K
RV10	1-237-032-11 s RES, ADJ, NETAL 500
RV101	1-230-869-11 s RES, ADJ, NETAL 4.7K
WALOI	1 200 003 11 S RES, RES, MES, METRE 4, 14
RV102	1-230-869-11 s RES, ADJ, METAL 4.7K
RV103	1-230-869-11 s RES, ADJ, METAL 4.7K
RV104	1-230-869-11 s RES. ADJ. METAL 4.7K
RV107	1-230-866-11 s RES, ADJ, METAL 470
RV501	1-230-869-11 s RES. ADJ. METAL 4.7K
11.001	1 200 000 11 0 120, 120, 120, 121, 121,
RV502	1-230-869-11 s RES, ADJ, METAL 4.7K
RV503	1-237-034-11 s RES, ADJ, METAL 2K
RV504	1-237-034-11 s RES, ADJ, METAL 2K
RV505	1-230-869-11 s RES, ADJ, METAL 4.7K
TH501	1-808-565-21 s THERMISTOR
TH502	1-808-565-21 s THERMISTOR

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

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AT-49A BOARD (Serial No. 41954 through 43999)
                     SP Description
or Q'ty Part No.
         A-7513-944-A o MOUNTED CIRCUIT BOARD, AT-49A
1pc
         3-621-124-00 o SPACER
3pcs
         3-724-713-01 o PLATE (AT-49), ORNAMENTAL
1pc
         3-724-753-01 o RING
lpc
         3-729-061-01 s SCREW (M2X4.5) (TYPE 1)
         7-688-001-12 s W 2, MIDDLE
1pc
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C4
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C6
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C.7
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C9
C15
         1-163-251-11 s CERAMIC 100PF 5% 50V
         1-162-637-11 s CERAMIC, CHIP 0.47uF 16V
C16
         1-135-097-21 s TANTALUM, CHIP 15uF 10% 10V
C19
         1-163-235-11 s CERAMIC 22PF 5% 50V
C20
         1-127-558-11 s ELECT (SOLID) 10uF 20% 10V
C21
C23
         1-163-235-11 s CERAMIC 22PF 5% 50V
C24
         1-127-558-11 s ELECT (SOLID) 10uF 20% 10V
C28
         1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
         1-135-097-21 s TANTALUM, CHIP 15uF 10% 10V
C31
         1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V
C38
C39
         1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
         1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
C40
C41
         1-131-388-00 s TANTALUM, 68uF 10% 6.3V
CN1
         1-566-960-11 o CONNECTOR, 50P, MALE
         8-719-104-34 s DIODE 1S2836
         8-719-104-34 s DIODE 1S2836
D2
         8-719-800-76 s DIODE 1SS226
D3
         8-719-104-34 s DIODE 1S2836
D4
         1-807-412-12 s IC BH-1219A
IC1
         1-807-413-11 s IC BH-1220
TC2
IC3
         1-807-414-11 s IC BH-1221
IC4
         8-759-200-79 s IC TC4049BF
         8-759-906-54 s IC TL064CNS
IC5
IC6
         8-759-009-05 s IC MC14051BF
         8-759-101-12 s IC UPC311G2
IC7
         8-759-918-65 s IC TL7700CPS
TC8
IC9
         8-759-204-79 s IC TC40H241F
IC10
         8-759-109-70 s IC UPC4560G2
IC11
         8-759-400-89 s IC MN1237AD
         8-741-100-58 s IC BX-1179A
TC12
IC13
         8-759-906-53 s IC TL062CPS
IC14
         8-759-321-94 s IC HD6305Y0D67P
IC16
         8-759-906-53 s IC TL062CPS
IC17
         8-752-330-59 s IC CXK1011P
         8-729-216-22 s TRANSISTOR 2SA1162
01
         8-729-109-44 s TRANSISTOR 2SK94
8-729-100-66 s TRANSISTOR 2SC1623
02
03
         8-729-100-66 s TRANSISTOR 2SC1623
Q4
Q6
         8-729-216-22 s TRANSISTOR 2SA1162
Q7
         8-729-216-22 s TRANSISTOR 2SA1162
         1-216-041-00 s METAL, CHIP 470 5% 1/10W
         1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
R52
         1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
R72
         1-216-681-11 s METAL, CHIP 18K 0.5% 1/10W
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(AT-49A BOARD)

or Q'ty	Part No. SP Description
R94	1-216-090-00 s METAL CHIP 51K 5% 1/10W
RB1	1-235-813-11 s COMPOSITION CIRCUIT BLOCK
RB2	1-235-813-11 s COMPOSITION CIRCUIT BLOCK
RB3	1-231-387-00 s COMPOSITION CIRCUIT BLOCK
RV1	1-241-447-21 s RES, ADJ, METAL 5K
RV2	1-228-474-00 s RES, ADJ, METAL 10K
RV4	1-237-035-11 s RES, ADJ, METAL 5K
S1	1-570-598-11 o SWITCH, DIP 4-CKT
S2	1-570-857-11 s SWITCH, SLIDE
X1	1-567-192-11 s RESONATOR, CERAMIC 4.00MHz

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AT-49C BOARD (Serial No. 44001 and higher)
                                                                        (AT-49C BOARD)
                                                                        Ref. No.
Ref. No.
                     SP Description
                                                                        or Q'ty Part No.
                                                                                              SP Description
or Q'ty Part No.
                                                                                 1-208-806-11 s METAL, CHIP 10K 0.5% 1/10W
         A-8274-904-A o MOUNTED CIRCUIT BOARD, AT-49C
1pc
                                                                                  1-208-806-11 s METAL, CHIP 10K 0.5% 1/10W
         3-724-713-01 o PLATE (AT-49), ORNAMENTAL
                                                                        R49
1pc
                                                                                  1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
         3-724-753-01 o RING
                                                                        R52
1pc
                                                                                  1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
         3-729-061-01 s SCREW (M2X4.5) (TYPE 1)
5pcs
                                                                        1272
         7-688-001-12 s W 2, MIDDLE
                                                                                  1-208-812-11 s METAL, CHIP 18K 0.5% 1/10W
                                                                        R73
1 pc
                                                                                  1-208-823-11 s METAL CHIP 51K 5% 1/10W
         3-621-124-00 o SPACER
                                                                        R94
8pcs
                                                                                  1-249-388-11 s CARBON, 3.9 5% 1/4W
                                                                        R100
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C2
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
                                                                                  1-235-813-11 s COMPOSITION CIRCUIT BLOCK
C4
                                                                        RR1
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
                                                                                  1-235-813-11 s COMPOSITION CIRCUIT BLOCK
C6
                                                                        RB2
                                                                                  1-231-387-00 s COMPOSITION CIRCUIT BLOCK
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C7
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C9
                                                                                 1-237-035-11 s RES, ADJ, METAL 5K
1-228-474-00 s RES, ADJ, METAL 10K
                                                                        RV1
         1-163-251-11 s CERAMIC 100PF 5% 50V
                                                                        RV2
C15
         1-162-637-11 s CERAMIC, CHIP 0.47uF 16V
                                                                                  1-237-035-11 s RES, ADJ, METAL 5K
C16
                                                                        RV4
         1-135-160-21 s TANTALUM, CHIP 15uF 10% 16V
C19
                                                                                  1-570-598-11 o SWITCH, DIP 4-CKT
         1-163-235-11 s CERAMIC 22PF 5% 50V
                                                                        S1
C20
         1-127-558-11 s ELECT (SOLID) 10uF 20% 10V
                                                                                  1-570-857-11 s SWITCH, SLIDE
C21
                                                                        S2
                                                                                  1-567-192-11 s RESONATOR, CERAMIC 4.00MHz
         1-163-235-11 s CERAMIC 22PF 5% 50V
                                                                        X 1
023
         1-127-558-11 s ELECT (SOLID) 10uF 20% 10V
C24
         1-163-239-11 s CERAMIC 33PF 5% 50V
1-163-239-11 s CERAMIC 33PF 5% 50V
C25
C26
         1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
C28
         1-135-160-21 s TANTALUM, CHIP 15uF 10% 16V
C31
         1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V
C38
         1-135-214-21 s TANTAL CHIP 4.7uF 10% 20V
C39
         1-162-638-11 s CERAMIC, CHIP 1uF 16V
C40
         1-162-638-11 s CERAMIC, CHIP luF 16V
C41
         1-135-227-11 s TANTAL CHIP 100uF 20% 6.3V
C43
         1-566-960-11 o CONNECTOR, 50P, MALE
CNI
         8-719-104-34 s DIODE 1S2836
D1
         8-719-104-34 s DIODE 1S2836
D2
         8-719-800-76 s DIODE 1SS226
D3
         8-719-104-34 s DIODE 1S2836
D4
         1-807-412-12 s IC BH-1219A
IC1
         1-807-413-11 s IC BH-1220
IC2
         1-807-414-11 s IC BH-1221
TC3
         8-759-200-79 s IC TC4049BF
TC4
         8-759-906-54 s IC TL064CNS
IC5
          8-759-009-05 s IC MC14051BF
IC6
         8-759-101-12 s IC UPC311G2
IC7
          8-759-918-65 s IC TL7700CPS
TC8
         8-759-204-79 s IC TC40H241F
TC9
         8-759-109-70 s IC UPC4560G2
IC10
          8-759-400-89 s IC MN1237AD
IC11
IC12
          8-741-100-58 s IC BX-1179A
          8-759-906-53 s IC TL062CPS
IC13
          8-759-347-10 s IC HD6305Y0F20P
IC14
          8-759-906-53 s IC TL062CPS
IC16
         8-752-330-59 s IC CXK1011P
IC17
          8-729-216-22 s TRANSISTOR 2SA1162
          8-729-109-44 s TRANSISTOR 2SK94
Q2
          8-729-120-28 s TRANSISTOR 2SC1623
۵3
          8-729-120-28 s TRANSISTOR 2SC1623
04
Q6
          8-729-216-22 s TRANSISTOR 2SA1162
          8-729-216-22 s TRANSISTOR 2SA1162
Q7
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Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

AU-97P B			(AU-97P	BOARD)		
Ref. No. or Q'ty			Ref. No. or Q'ty	Part No. SP	Description	
lpc lpc lpc lpc	A-6713-351-A o MOUNTED CIRCUIT BOARD, AU-97P 3-724-704-01 o PLATE (AU-97), ORNAMENTAL 3-724-753-01 o RING 3-729-031-01 o CASE (AU-1), SHIELD		C406 C408 C409	1-135-149-21 s 1-126-394-11 s	ELECT, CHIP 10uF 20% 16 TANTALUM, CHIP 2.2uF 16 ELECT, CHIP 10uF 20% 16	0% 10V
lpc	3-729-032-03 o CASE (AU-2), SHIELD		CN1		CONNECTOR, 50P, MALE	
5pcs 1pc	3-729-061-01 s SCREW (M2X4.5) (TYPE 1) 7-688-001-12 s W 2, MIDDLE		CT1		COIL, VAR 3.4mH CAP, TRIMMER 100PF	
C1 C2 C3 C5	1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-126-101-11 s ELECT 100uF 20% 16V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V		CV131 CV231 D1 D101 D201	8-719-941-86 s 8-719-941-23 s 8-719-941-23 s	CAP, TRIMMER 100PF DIODE DAN202U DIODE DA204U	
C6 C7 C8 C9 C10 C14	1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-124-478-11 s ELECT 100uF 20% 25V		IC1 IC2 IC102 IC111 IC112	8-757-991-00 s 8-759-095-59 s 8-741-148-90 s 8-759-702-06 s 8-759-300-71 s	IC CX-7991 IC M5237ML IC SBX1489-01 IC NJM064M	
C16 C18 C32 C34 C102	1-127-495-00 s ELECT (SOLID) 4.7uF 20% 16V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-163-263-11 s CERAMIC 330PF 5% 50V 1-109-631-00 s MICA 330PF 2% 500V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V		IC131 IC211 IC301 IC302 IC401	8-759-702-02 s 8-759-702-06 s 8-759-981-58 s 8-759-300-71 s 8-759-981-58 s	IC NJM064M IC RC2043MD IC MC14053BF	
C103 C104 C105 C106 C111	1-135-070-00 s TANTALUM, CHIP 0.1uF 10% 35V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-163-227-11 s CERAMIC 10PF 5% 50V		L1 L3 L4 L5 L6	1-412-279-31 s 1-412-279-31 s 1-412-279-31 s	INDUCTOR 470uH INDUCTOR 270uH INDUCTOR 270uH INDUCTOR 270uH INDUCTOR 100uH	
C113 C114 C121 C122 C123	1-163-011-11 s CERAMIC, CHIP 0.0015uF 10% 50V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-163-227-11 s CERAMIC 10PF 5% 50V 1-163-011-11 s CERAMIC, CHIP 0.0015uF 10% 50V 1-163-011-11 s CERAMIC, CHIP 0.0015uF 10% 50V		LV111 LV121 LV131 LV211 LV221	1-410-854-12 s 1-410-853-12 s 1-410-854-12 s	COIL, VAR 18mH COIL, VAR 18mH COIL, VAR 4.5mH COIL, VAR 18mH COIL, VAR 18mH	
C124 C131 C132 C134 C136	1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-163-018-00 s CERAMIC, CHIP 0.0056uF 5% 50V 1-135-073-00 s TANTALUM, CHIP 0.33uF 10% 35V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-163-251-11 s CERAMIC 100PF 5% 50V		LV231 Q1 Q2 Q3 Q4	8-729-117-16 s 8-729-905-18 s 8-729-905-18 s 8-729-905-12 s	COIL, VAR 4.5mH TRANSISTOR 2SA1611-M6 TRANSISTOR DTC144EU TRANSISTOR DTC144EU TRANSISTOR DTA144EU TRANSISTOR DTA144EU TRANSISTOR DTA144EU	
C138 C202 C203 C204 C211	1-109-631-00 s MICA 330PF 2% 500V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-135-070-00 s TANTALUM, CHIP 0.1uF 10% 35V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-163-227-11 s CERAMIC 10PF 5% 50V 1-163-011-11 s CERAMIC, CHIP 0.0015uF 10% 50V		Q8 Q9 Q10 Q11 Q12 Q13	8-729-159-64 s 8-729-159-64 s 8-729-905-12 s 8-729-159-64 s	TRANSISTOR 2SD596 TRANSISTOR 2SD596 TRANSISTOR DTA144EU TRANSISTOR 2SD596 TRANSISTOR 2SD596 TRANSISTOR 2SD596	
C214 C221 C222 C223	1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-163-227-11 s CERAMIC 10PF 5% 50V 1-163-011-11 s CERAMIC, CHIP 0.0015uF 10% 50V 1-163-011-11 s CERAMIC, CHIP 0.0015uF 10% 50V		Q14 Q15 Q16 Q17	8-729-209-07 s 8-729-209-07 s 8-729-901-46 s 8-729-905-18 s	TRANSISTOR 2SC4213-B TRANSISTOR 2SC4213-B TRANSISTOR DTA114YK TRANSISTOR DTC144EU	
C224 C231 C232 C234 C236	1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-163-018-00 s CERAMIC, CHIP 0.0056uF 5% 50V 1-135-073-00 s TANTALUM, CHIP 0.33uF 10% 35V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-163-251-11 s CERAMIC 100PF 5% 50V		Q18 Q131 Q132 Q231 Q232	8-729-209-07 s 8-729-209-07 s 8-729-209-07 s 8-729-209-07 s	TRANSISTOR 2SB798 TRANSISTOR 2SC4213-B TRANSISTOR 2SC4213-B TRANSISTOR 2SC4213-B TRANSISTOR 2SC4213-B	
C238 C304 C306 C308 C309	1-109-631-00 s MICA 330PF 2% 500V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-135-149-21 s TANTALUM, CHIP 2. 2uF 10% 10V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V		Q301 Q302 Q303 Q304 Q401 Q402	8-729-209-07 s 8-729-220-93 s 8-729-905-18 s 8-729-209-07 s	TRANSISTOR 2SC4213-B TRANSISTOR 2SC4213-B TRANSISTOR 2SK209-G TRANSISTOR DTC144EU TRANSISTOR 2SC4213-B TRANSISTOR 2SC4213-B	

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

((,		
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. S	P Description	
Q403 Q404 Q405	8-729-220-93 s TRANSISTOR 2SK209-G 8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-18 s TRANSISTOR DTC144EU	R142 R143	1-216-835-11 : 1-216-844-11 : 1-218-306-11 : 1-216-845-11 :	s METAL, CHIP s METAL CHIP	82K 5% 1/16W
R1 R2 R3 R4	1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-849-11 s METAL, CHIP 220K 5% 1/16W 1-216-849-11 s METAL, CHIP 220K 5% 1/16W	R212 R213 R214	1-216-844-11 : 1-216-823-11 : 1-216-833-11 :	s METAL, CHIP s METAL, CHIP s METAL, CHIP	82K 5% 1/16W 1.5K 5% 1/16W 10K 5% 1/16W
R5 R6	1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W	R215 R216	1-216-829-11 1-216-833-11 1-216-837-11	s METAL, CHIP s METAL, CHIP	4.7K 5% 1/16W 10K 5% 1/16W
R7 R8 R12 R13	1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W	R218 R220 R221	1-216-825-11 1-216-844-11 1-216-844-11	s METAL, CHIP s METAL, CHIP s METAL, CHIP	2.2K 5% 1/16W 82K 5% 1/16W 82K 5% 1/16W
R16 R17 R18	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W	R224 R225	1-216-833-11 1-216-829-11	s METAL, CHIP s METAL, CHIP	4.7K 5% 1/16W
R22 R23 R25	1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-849-11 s METAL, CHIP 220K 5% 1/16W	R226 R227 R228 R229	1-216-833-11 1-216-837-11 1-216-825-11 1-216-842-11	s METAL, CHIP s METAL, CHIP	22K 5% 1/16W 2.2K 5% 1/16W
R26 R30 R31 R32	1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R231 R232 R233	1-216-833-11 1-216-833-11 1-216-845-11	s METAL, CHIP s METAL, CHIP	10K 5% 1/16W 10K 5% 1/16W 100K 5% 1/16W 150K 5% 1/16W
R33 R34 R35 R36	1-216-813-11 s METAL, CHIP 220 5% 1/16W 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W	R234 R235 R236 R237	1-216-839-11 1-218-304-11	s METAL, CHIP s METAL CHIP	33K 5% 1/16W
R37 R38 R39	1-216-835-11 s METAL, CHIP 15K 5% 1/16W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R238 R239 R240	1-216-813-11 1-216-841-11 1-216-833-11	s METAL, CHIP s METAL, CHIP	220 5% 1/16W 47K 5% 1/16W
R40 R111 R112	1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-844-11 s METAL, CHIP 82K 5% 1/16W	R241 R242 R243 R301	1-216-844-11 1-218-306-11	s METAL, CHIP s METAL CHIP	15K 5% 1/16W 82K 5% 1/16W 100K 1% 1/16W 2.2K 5% 1/16W
R113 R114 R115 R116	1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R302 R303 R304	1-216-821-11	s METAL, CHIP s METAL, CHIP	
R117 R118	1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R305 R306 R307	1-216-821-11 1-216-825-11	s METAL, CHIP s METAL, CHIP	2.2K 5% 1/16W 2.2K 5% 1/16W 33K 5% 1/16W
R120 R121 R123 R124	1-216-844-11 s METAL, CHIP 82K 5% 1/16W 1-216-844-11 s METAL, CHIP 82K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R308 R309 R310	1-216-829-11 1-216-685-11	s METAL, CHIF s METAL, CHIF	2 470 5% 1/16W 2 4.7K 5% 1/16W 2 27K 0.5% 1/10W 3.9K 0.5% 1/10W
R125 R126 R127 R128	1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W	R311 R312 R314 R315	1-216-679-11 1-216-857-11 1-216-857-11	s METAL, CHIF s METAL, CHIF	P 15K 0.5% 1/10W P 1M 5% 1/16W
R129 R131	1-216-842-11 s METAL, CHIP 56K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R316 R317 R318	1-216-658-11 1-216-675-11	s METAL, CHIE	P 2K 0.5% 1/10W P 10K 0.5% 1/10W P 10K 5% 1/16W
R132 R133 R134 R135	1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-847-11 s METAL, CHIP 150K 5% 1/16W 1-216-839-11 s METAL, CHIP 33K 5% 1/16W	R319 R320 R321	1-216-821-11 1-216-821-11	s METAL, CHIE	P 220 5% 1/16W P 1K 5% 1/16W P 1K 5% 1/16W P 2.2K 5% 1/16W
R136 R137 R138	1-218-304-11 s METAL CHIP 12K 1% 1/16W 1-216-846-11 s METAL, CHIP 120K 5% 1/16W 1-216-813-11 s METAL, CHIP 220 5% 1/16W	R401 R402 R403	1-216-821-11 1-216-822-11	s METAL, CHII	P 1K 5% 1/16W P 1.2K 5% 1/16W
R139 R140	1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-833-11 s METAL, CHIP 10K 5% 1/16W	R404 R405 R406	1-216-821-11	s METAL, CHI	P 220K 5% 1/16W P 1K 5% 1/16W P 2.2K 5% 1/16W

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BI-23 BOARD
 (AU-97P BOARD)
                                                                              Ref. No.
Ref. No.
                                                                              or Q'ty Part No.
                                                                                                     SP Description
or Q'ty Part No.
                       SP Description
          1-216-839-11 s METAL, CHIP 33K 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-685-11 s METAL, CHIP 4.7K 0.5% 1/10W
                                                                                        1-135-154-21 s TANTAL 3.3uF 20% 20V
R407
                                                                                        1-135-154-21 s TANTAL 3.3uF 20% 20V
                                                                              C2
R408
                                                                                        1-135-154-21 s TANTAL 3. 3uF 20% 20V
R409
                                                                              C3
                                                                                        1-135-154-21 s TANTAL 3.3uF 20% 20V
R410
                                                                              C5
          1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W
                                                                                        1-135-154-21 s TANTAL 3. 3uF 20% 20V
R411
                                                                              C6
          1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R412
                                                                              C7
                                                                                        1-163-263-11 s CERAMIC 330PF 5% 50V
                                                                                        1-135-154-21 s TANTAL 3.3uF 20% 20V
                                                                              C10
R413
                                                                                        1-135-154-21 s TANTAL 3. 3uF 20% 20V
          1-216-857-11 s METAL, CHIP 1M 5% 1/16W
R414
                                                                              C13
                                                                                        1-135-154-21 s TANTAL 3.3uF 20% 20V
          1-216-857-11 s METAL, CHIP 1M 5% 1/16W
R415
                                                                              C14
R416
          1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W
                                                                              CNI
                                                                                        1-562-735-11 o HOUSING, 2P
R417
          1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
                                                                                        1-562-746-11 o HOUSING, CONNECTOR 13P
R418
          1-216-833-11 s METAL, CHIP 10K 5% 1/16W
          1-216-813-11 s METAL, CHIP 220 5% 1/16W
                                                                                        1-562-147-11 s HOUSING, 2P
R419
                                                                              CN2
          1-237-031-11 s RES, ADJ, METAL 200
1-237-032-11 s RES, ADJ, METAL 500
RVI
                                                                                        8-719-104-34 s DIODE 1S2836
                                                                              DI
                                                                                        8-719-104-34 s DIODE 1S2836
RV2
                                                                              D2
          1-237-036-11 s RES, ADJ, METAL 10K
RVIOI
                                                                              D3
                                                                                        8-719-104-34 s DIODE 1S2836
RV111
          1-230-869-11 s RES, ADJ, METAL 4.7K
                                                                              D4
                                                                                        8-719-104-34 s DIODE 1S2836
          1-237-037-11 s RES, ADJ, METAL 20K
                                                                                        8-719-104-34 s DIODE 1S2836
RV112
                                                                              D5
                                                                              Q1
                                                                                        8-729-101-25 s TRANSISTOR 2SC1009A
RV113
          1-237-036-11 s RES, ADJ, METAL 10K
                                                                                        8-729-802-45 s TRANSISTOR 2SK125-5
RV121
          1-230-869-11 s RES, ADJ, METAL 4.7K
                                                                              Q2
RV122
          1-237-037-11 s RES, ADJ, METAL 20K
          1-237-036-11 s RES, ADJ, METAL 10K
                                                                                        1-216-086-00 s METAL, CHIP 36K 5%
RV123
                                                                              R12
          1-237-036-11 s RES, ADJ, METAL 10K
RV201
RV211
          1-230-869-11 s RES, ADJ, METAL 4.7K
RV212
          1-237-037-11 s RES, ADJ, METAL 20K
RV221
          1-230-869-11 s RES, ADJ, METAL 4.7K
          1-237-037-11 s RES, ADJ, METAL 20K
RV222
RV301
          1-237-032-11 s RES, ADJ, METAL 500
                                                                              BI-24 BOARD
RV302
          1-237-035-11 s RES, ADJ, METAL 5K
RV303
          1-237-036-11 s RES, ADJ, METAL 10K
                                                                              or Q'ty Part No.
                                                                                                     SP Description
          1-237-032-11 s RES, ADJ, METAL 500
RV401
                                                                                       1-135-154-21 s TANTAL 3.3uF 20% 20V
1-135-154-21 s TANTAL 3.3uF 20% 20V
          1-237-035-11 s RES, ADJ, METAL 5K
RV402
                                                                              C1
          1-237-036-11 s RES, ADJ, METAL 10K
RV403
                                                                              C2.
                                                                                        1-135-154-21 s TANTAL 3.3uF 20% 20V
                                                                              C3
                                                                              C5
                                                                                        1-135-154-21 s TANTAL 3.3uF 20% 20V
                                                                                        1-135-154-21 s TANTAL 3.3uF 20% 20V
                                                                              C6
                                                                              C7
                                                                                        1-163-263-11 s CERAMIC 330PF 5% 50V
                                                                                       1-135-154-21 s TANTAL 3.3uF 20% 20V
1-135-154-21 s TANTAL 3.3uF 20% 20V
                                                                              C10
BI-22 BOARD
                                                                              C13
                                                                                        1-135-154-21 s TANTAL 3.3uF 20% 20V
                                                                              C14
Ref. No.
or Q'ty Part No.
                       SP Description
                                                                              CN1
                                                                                        1-562-735-11 o HOUSING, 2P
                                                                                        1-562-746-11 o HOUSING, CONNECTOR 13P
          1-163-263-11 s CERAMIC 330PF 5% 50V
                                                                              CN2
                                                                                        1-562-147-11 s HOUSING, 2P
          1-562-735-11 o HOUSING, 2P
          1-562-746-11 o HOUSING, CONNECTOR 13P
                                                                                        8-719-104-34 s DIODE 1S2836
                                                                              D1
                                                                                        8-719-104-34 s DIODE 1S2836
                                                                              D2
CN<sub>2</sub>
          1-562-147-11 s HOUSING, 2P
                                                                                        8-719-104-34 s DIODE 1S2836
                                                                              D3
                                                                                        8-719-104-34 s DIODE 1S2836
                                                                              D4
          8-719-104-34 s DIODE 1S2836
                                                                                        8-719-104-34 s DIODE 1S2836
                                                                              D5
D2
          8-719-104-34 s DIODE 1S2836
          8-719-104-34 s DIODE 1S2836
                                                                                        8-729-101-25 s TRANSISTOR 2SC1009A
D3
                                                                              ۵1
          8-719-104-34 s DIODE 1S2836
                                                                                        8-729-802-45 s TRANSISTOR 2SK125-5
D4
                                                                              02
D5
          8-719-104-34 s DIODE 1S2836
                                                                                        1-216-086-00 s METAL, CHIP 36K 5%
                                                                              R12
Q1
          8-729-101-25 s TRANSISTOR 2SC1009A
02
          8-729-802-45 s TRANSISTOR 2SK125-5
R12
          1-216-092-00 s METAL, CHIP 62K 5%
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CN-400 BOARD		DR-84 BOARD			
Ref. No. or Q'ty Part No. SP Description		Ref. No. or Q'ty	Part No. SP Description		
lpc 1-634-967-11 o PRINTED CIRC	UIT BOARD, CN-400	lpc	A-7513-942-A o MOUNTED CIRCUIT BOARD, DR-84		
CNI 1-565-146-11 o PIN, CONNECT CN3 1-565-144-11 o CONNECTOR, 1 CN4 1-565-142-11 o PIN, CONNECT	1P, MALE	C2 C48 C69 C72	1-163-235-11 s CERAMIC 22PF 5% 50V 1-124-360-00 s ELECT 1000uF 20% 16V 1-124-122-11 s ELECT 100 20% 50V 1-135-152-21 s TANTAL 1.5uF 10% 25V		
		CN1 CN2 CN3	1-506-472-11 o CONNECTOR, 7P, MALE 1-563-238-11 o CONNECTOR, 15P, FEMALE 1-563-292-11 o CONNECTOR, 30P, FEMALE		
CN-771 BOARD (Serial No. 44001 and hi Ref. No. or Q'ty Part No. SP Description	gher)	D1 D2 D3 D4 D5	8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK		
2pcs 1-565-164-11 o CONTACT, FEM 10pcs 1-566-987-11 o CONTACT, AWG 8pcs 1-580-599-11 o CONTACT, FEM 1pc 1-643-707-12 o PRINTED CIRC 1pc 3-177-365-01 o SHEET (CN),	28-32 ALE, AWG26-30 UIT BOARD, CN-771	D6 D7 D8 D9 D10	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-800-76 s DIODE 1SS226		
lpc 3-742-205-02 o BRACKET, CN 2pcs 7-627-553-47 s SCREW, PRECIS C1 1-135-160-21 s TANTAL 15uF CN1 1-580-581-11 o HOUSING, 10P		D11 D12 D13 D14 D15	8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836 8-719-400-18 s DIODE MA152WK		
CN2 1-565-121-11 o HOUSING, CONICN11 1-580-564-11 o PIN, CONNECTOR 1-565-142-11 o PIN, CONNECTOR 1-565-151-11 o CONNECTOR, 41	OR (PC BOARD) 18P OR (STRAIGHT) 9P P, MALE	D16 D17 D18 D19	8-719-400-18 s DIODE MA152WK 8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836		
CN14 1-565-151-11 o CONNECTOR, 41		D20 D21	8-719-104-34 s DIODE 1S2836 8-719-400-18 s DIODE MA152WK		
Q1 8-729-923-77 s TRANSISTOR DO 8-729-929-921-77 s TRANSISTOR DO 8-729-921-77 s TRANSISTOR DO 8-729-921	TA114WK	D22 D23 D24	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-800-76 s DIODE 1SS226		
R1 1-216-663-11 s METAL, CHIP (R2 1-216-665-11 s METAL, CHIP (R3 1-216-663-11 s METAL, CHIP (R4 1-216-673-11 s METAL, CHIP (3.9K 0.5% 1/10W 3.3K 0.5% 1/10W	IC1 IC2 IC3 IC4	8-752-031-03 s IC CXA1065M 8-752-031-03 s IC CXA1065M 8-752-031-03 s IC CXA1065M 8-759-979-69 s IC TSC426C0A		
W12 1-568-815-11 o HOUSING, 9P W15 1-566-988-11 o HOUSING, CONN	VECTOR 2P	Q1 Q2 Q3 Q4 Q5	8-729-100-66 s TRANSISTOR 2SC1623 8-729-101-00 s TRANSISTOR NTM2369 8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-101-00 s TRANSISTOR NTM2369		
		Q6 Q7 Q8 Q9 Q10	8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162		
		Q11 Q12 Q13 Q14 Q15	8-729-216-22 s TRANSISTOR 2SA1162 8-729-802-45 s TRANSISTOR 2SK125-5 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623		
		Q16 Q17 Q18 Q19 Q20	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623		
		Q21	8-729-100-66 s TRANSISTOR 2SC1623		

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(DR-84 BOARD)
                                                                          EN-79P BOARD
                                                                          Ref. No.
Ref. No.
                                                                          or Q'ty Part No.
                                                                                              SP Description
                    SP Description
or Q'ty Part No.
         1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W
                                                                                    A-7513-961-A O MOUNTED CIRCUIT BOARD, EN-79P
                                                                          1pc
                                                                                    3-621-124-00 o SPACER
                                                                          10pcs
                                                                                    3-724-709-01 o PLATE (EN-62), ORNAMENTAL
         1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W
                                                                          lpc
                                                                                    3-724-753-01 o RING
                                                                          lpc
                                                                                    3-729-061-01 s SCREW (M2X4.5) (TYPE 1)
         1-237-037-11 s RES, ADJ, METAL 20K
                                                                          5pcs
         1-237-037-11 s RES, ADJ, METAL 20K
1-237-037-11 s RES, ADJ, METAL 20K
RV2
                                                                                    7-688-001-12 s W 2, MIDDLE
                                                                          1pc
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          CI
                                                                                    1-163-086-00 s CERAMIC, CHIP 3PF 50V
                                                                          C4
                                                                                    1-163-086-00 s CERAMIC, CHIP 3PF 50V
1-163-086-00 s CERAMIC, CHIP 3PF 50V
                                                                          C5
                                                                          C6
                                                                                    1-135-155-21 s TANTAL CHIP 4. 7uF 10% 16V
                                                                          C9
DUS-246 BOARD
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C11
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C13
Ref. No.
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C15
or Q'ty Part No.
                      SP Description
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C17
                                                                                    1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
         1-625-969-11 o PRINTED CIRCUIT BOARD, DUS-246
                                                                          C22
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C24
                                                                                    1-135-157-21 s TANTAL 10uF 10% 6.3V
                                                                          C25
                                                                                    1-135-157-21 s TANTAL 10uF 10% 6.3V
                                                                          C26
                                                                                    1-163-251-11 s CERAMIC 100PF 5% 50V
                                                                          C27
                                                                                    1-163-127-00 s CERAMIC, CHIP 270PF 5% 50V
                                                                          C28
DUS-297 BOARD
                                                                                    1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V
                                                                          C29
                                                                                    1-135-180-21 s TANTAL 3. 3uF 20% 6. 3V
Ref. No.
                                                                          C30
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C31
or Q'ty Part No.
                    SP Description
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C32
                                                                                    1-163-084-00 s CERAMIC, CHIP 1.5PF 50V
         1-124-440-11 s ELECT 3300uF 20% 25V
                                                                          C34
                                                                                    1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
                                                                          C35
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C36
                                                                                    1-163-251-11 s CERAMIC 100PF 5% 50V
1-163-127-00 s CERAMIC, CHIP 270PF 5% 50V
                                                                          C39
                                                                          C40
                                                                                    1-135-145-11 s TANTALUM, CHIP 0. 47uF 10% 35V
                                                                          C41
                                                                                    1-135-180-21 s TANTAL 3.3uF 20% 6.3V
                                                                          C42
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C43
                                                                                    1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
                                                                          C44
                                                                          C46
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C47
                                                                                    1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
                                                                          C48
                                                                          C50
                                                                                    1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V
                                                                                    1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V
                                                                          C51
                                                                                    1-135-162-21 s TANTAL 33uF 10% 6.3V
                                                                          C53
                                                                                    1-163-251-11 s CERAMIC 100PF 5% 50V
                                                                          C58
                                                                          C59
                                                                                    1-163-115-00 s CERAMIC, CHIP 82PF 5% 50V
                                                                                    1-135-180-21 s TANTAL 3. 3uF 20% 6. 3V
                                                                          C62
                                                                                    1-135-180-21 s TANTAL 3. 3uF 20% 6. 3V
                                                                           C63
                                                                                    1-135-149-21 s TANTALUM, CHIP 2. 2uF 10% 10V
                                                                           C64
                                                                                    1-135-158-21 s TANTALUM 15uF 10% 4V
                                                                           C68
                                                                                    1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
                                                                           C74
                                                                                    1-163-227-11 s CERAMIC 10PF 5% 50V
                                                                           C75
                                                                                    1-163-227-11 s CERAMIC 10PF 5% 50V
                                                                           C76
                                                                                    1-566-960-11 o CONNECTOR, 50P, MALE
                                                                           CN1
                                                                                    1-141-347-11 s CAP, TRIMMER 10PF
                                                                           CV1
                                                                                    1-415-562-11 s DELAY LINE 338nS
                                                                           DI.1
                                                                                    1-235-181-00 s FILTER, BANDPASS 4.43MHz
                                                                           FL3
                                                                                    8-759-300-71 s IC MC14053BF
                                                                           IC1
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8-759-911-77 s IC CX-7968A ·

(EI	V-79P	BOARD)	÷ -		(EN-79P	BOARD)
	f. No. Q'ty	Part No.	SP Description		Ref. No.	Part No. SP Description
IC3 IC4 IC5 IC7 IC8	1 5	1-807-419-11 1-807-418-11 8-741-135-60	s IC BH-1216 s IC BH-1214 s IC BH-1213 s IC BX-1356 s IC CX22017		R44 R45 R46 R51 R60	1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
IC9 IC1					R64 R69	1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
L1 L4 L5 L6 L7			s INDUCTOR, CHIP 68uH s INDUCTOR, CHIP 68uH		R71 R75 R76 R77 R78	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W
LV2			s INDUCTOR, VAR, 22uH		R79 R83	1-216-638-11 s METAL, CHIP 300 0.5% 1/10W 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W
Q1 Q2 Q3 Q4 Q5		8-729-100-66 8-729-100-66 8-729-216-22 8-729-100-66	s TRANSISTOR 2SC1623 s TRANSISTOR 2SC1623 s TRANSISTOR 2SC1623 s TRANSISTOR 2SA1162 s TRANSISTOR 2SC1623 s TRANSISTOR 2SC1623		R84 R85 R88 R89 R90 R91	1-216-603-11 s METAL. CHIP 10 0.5% 1/10W 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W 1-216-666-11 s METAL, CHIP 4.3K 0.5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
Q11 Q12 Q13 Q14		8-729-100-66 8-729-100-66 8-729-122-63 8-729-100-66	s TRANSISTOR 2SC1623 s TRANSISTOR 2SC1623 s TRANSISTOR 2SA1226 s TRANSISTOR 2SC1623	je 1875	R99 R102 R105 R106 R107	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
Q15 Q18 Q19 Q20 Q21		8-729-100-66 8-729-100-66 8-729-100-66 8-729-122-63	s TRANSISTOR 2SA1162 s TRANSISTOR 2SC1623 s TRANSISTOR 2SC1623 s TRANSISTOR 2SC1623 s TRANSISTOR 2SA1226		R113 R114 R121 R122	1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W
Q22 Q23 Q24 Q25 Q26	~	8-729-100-66 ; 8-729-100-66 ; 8-729-100-66 ; 8-729-141-48 ;	S TRANSISTOR 2SC1623 S TRANSISTOR 2SB624-BV345 S TRANSISTOR 2SB624-BV345		R135 R141 R143 R144	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-659-11 s METAL, CHIP 75 0.5% 1/10W
Q28 Q29 Q30 Q31		8-729-141-48	S TRANSISTOR 2SB624-BV345 S TRANSISTOR 2SB624-BV345 S TRANSISTOR 2SD596 S TRANSISTOR 2SA1162 S TRANSISTOR 2SC1623		R149 R152	1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W
Q32 Q33 Q34 Q35 Q36	;	8-729-100-66 s 8-729-216-22 s 8-729-100-66 s	TRANSISTOR 2SC1623 TRANSISTOR 2SC1623 TRANSISTOR 2SA1162 TRANSISTOR 2SC1623 TRANSISTOR 2SC1623		RB2 RB3	1-239-024-11 s MATRIX RESISTOR 1-239-025-11 s MATRIX RESISTOR 1-239-026-11 s MATRIX RESISTOR
R17 R18 R19 R20 R21		1-216-687-11 s 1-216-687-11 s 1-216-687-11 s 1-216-699-11 s	5 METAL, CHIP 33K 0.5% 1/10W 5 METAL, CHIP 33K 0.5% 1/10W 5 METAL, CHIP 33K 0.5% 1/10W 5 METAL, CHIP 100K 0.5% 1/10W 5 METAL, CHIP 100K 0.5% 1/10W		RV2 RV3 RV6 RV8	1-237-034-11 s RES, ADJ, METAL 2K 1-237-034-11 s RES, ADJ, METAL 2K 1-237-034-11 s RES, ADJ, METAL 2K 1-237-036-11 s RES, ADJ, METAL 10K 1-237-034-11 s RES, ADJ, METAL 2K
R22 R26 R27 R28 R34		1-216-699-11 s 1-216-665-11 s 1-216-665-11 s 1-216-665-11 s	S METAL, CHIP 100K 0.5% 1/10W S METAL, CHIP 3.9K 0.5% 1/10W S METAL, CHIP 18K 0.5% 1/10W		RV10 RV11 RV12	1-228-473-00 s RES, ADJ, METAL 5K 1-228-473-00 s RES, ADJ, METAL 5K 1-237-033-11 s RES, ADJ, METAL 1K 1-237-033-11 s RES, ADJ, METAL 1K 1-237-036-11 s RES, ADJ, METAL 10K
R35 R36 R37 R38 R43		-216-662-11 s -216-661-11 s -216-659-11 s -216-623-11 s	METAL, CHIP 16K 0.5% 1/10W METAL, CHIP 3K 0.5% 1/10W METAL, CHIP 2.7K 0.5% 1/10W METAL, CHIP 2.2K 0.5% 1/10W METAL, CHIP 68 0.5% 1/10W METAL, CHIP 2.2K 0.5% 1/10W		RV16 RV17 RV18 RV19	1-237-034-11 s RES, ADJ, METAL 2K 1-237-035-11 s RES, ADJ, METAL 5K 1-228-473-00 s RES, ADJ, METAL 5K 1-237-033-11 s RES, ADJ, METAL 1K 1-241-445-21 s RES, ADJ, METAL 1K
		. 210 000 11 0	COLLINS VILLE C. CR U. U. O. 1/1Uff		RV20	1-237-032-11 s RES, ADJ, METAL 500

(EN-79P BOARD)

Ref. No. or Q' ty Part No. SP Description

RV21 1-237-032-11 s RES, ADJ, METAL 500

S1 1-570-857-11 s SWITCH, SLIDE S2 1-570-857-11 s SWITCH, SLIDE S3 1-570-375-12 s SWITCH, SLIDE

EX-148 BOARD

Ref. No.

or Q'ty Part No. SP Description

lpc A-7520-314-A o MOUNTED CIRCUIT BOARD, EX-148 4pcs 3-729-061-01 s SCREW (M2X4.5) (TYPE 1)

CN1 1-566-960-11 o CONNECTOR, 50P, MALE CN2 1-566-961-11 o CONNECTOR, 50P, FEMALE

FE-4 BOARD

Ref. No. SP Description or Q'ty Part No. A-6725-603-A o MOUNTED CIRCUIT BOARD, FE-4 3-722-419-01 o HOLDER, FE-4 3-729-013-21 s SCREW(M1.4X2.5), WASHERJIEAD(+P) 2pcs 1-136-562-11 s FILM 0.0082uF 5% 200V C1 1-126-101-11 s ELECT 100uF 20% 16V C5 1-163-018-00 s CERAMIC, CHIP 0.0056uF 5% 50V C8 1-164-756-11 s CERAMIC, CHIP 0.0033uF 5% 50V C11 1-164-756-11 s CERAMIC, CHIP 0.0033uF 5% 50V C12 1-163-001-11 s CERAMIC 220PF 10% 50V C15 1-126-157-11 s ELECT 10uF 20% 16V C16. 1-566-977-11 o CONNECTOR, 12P, MALE CN1 1-424-511-11 s TRANSFORMER, FE CP1 1-810-462-11 s SENSOR, DEW CONDENSATION CSI 8-759-805-32 s IC LA7205M ICl 1-464-909-11 s COIL, SENSOR 1.1 1-408-429-00 s INDUCTOR 470ull L2 8-729-159-64 s TRANSISTOR 2SD596 8-729-159-64 s TRANSISTOR 2SD596 Q1 02 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W R3 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W **R4**

FL-45 BOARD

Ref. No.

or Q'ty Part No. SP Description

lpc 1-625-891-13 s PRINTED CIRCUIT BOARD, FL-45 FLEXIB

FL-46 BOARD

Ref. No.

or Q'ty Part No. SP Description

lpc 1-625-892-13 s PRINTED CIRCUIT BOARD, FL-46 FLEXIB

FL-55P BOARD	IE-30AP BOARD		
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description		
1pc A-6713-349-A o MOUNTED CIRCUIT BOARD, FL-55P	1pc A-7515-313-A o MOUNTED CIRCUIT BOARD, IE-30AP		
C1 1-163-135-00 s CERAMIC, CHIP 560PF 5% 50V C4 1-135-149-21 s TANTALUM, CHIP 2. 2uF 10% 10V C11 1-163-135-00 s CERAMIC, CHIP 560PF 5% 50V	2pcs 3-621-124-00 o SPACER 1pc 3-724-712-02 o PLATE (IE-20), ORNAMENTAL 1pc 3-724-753-01 o RING 5pcs 3-729-061-01 s SCREW (M2X4.5) (TYPE 1)		
D1 8-719-941-09 s DIODE DAP202U	1pc 7-688-001-12 s W 2, MIDDLE		
IC1 8-759-981-54 s IC RC2041MD	C2 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V C3 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V		
Q1 8-729-209-07 s TRANSISTOR 2SC4213-B Q2 8-729-117-16 s TRANSISTOR 2SA1611-M6 Q11 8-729-209-07 s TRANSISTOR 2SC4213-B	C5 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V C7 1-124-282-00 s ELECT, NONPOLAR 22uF 20% 25V C12 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V		
R1 1-216-603-11 s METAL, CHIP 10 0.5% 1/10W R11 1-216-603-11 s METAL, CHIP 10 0.5% 1/10W	C17 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V C18 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V		
RVI 1-228-478-11 s RES, ADJ, METAL 200K RVII 1-228-478-11 s RES, ADJ, METAL 200K RYI 1-515-614-21 s RELAY	C20 1-163-227-11 s CERAMIC 10PF 5% 50V C21 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V C26 1-163-227-11 s CERAMIC 10PF 5% 50V		
	C27 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V C32 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V C33 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V C35 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V C37 1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V		
FL-57 BOARD	C38 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V C44 1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V		
Ref. No. or Q'ty Part No. SP Description	C45 1-164-330-21 s CERAMIC 0.22uF 10% 16V C47 1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V		
lpc 1-625-895-11 s PRINTED CIRCUIT BOARD, FL-57 FLEXIB Serial No. UP TO 42095	C48 1-162-637-11 s CERAMIC, CHIP 0.47uF 16V C49 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V		
lpc 1-625-895-21 s PRINTED CIRCUIT BOARD, FL-57 FLEXIB Serial No. 42096 and higher	C49 1-135-159-21 S TANTALUM, CHIP 10uF 10% 20V C51 1-135-159-21 S TANTALUM, CHIP 10uF 10% 20V C52 1-135-159-21 S TANTALUM, CHIP 10uF 10% 20V C53 1-135-159-21 S TANTALUM, CHIP 10uF 10% 20V		
	C55 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V C57 1-163-251-11 s CERAMIC 100PF 5% 50V		
HP-43 BOARD	C57 1-163-251-11 s CERAMIC 100PF 5% 50V C58 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V C61 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V C64 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V		
Ref. No. or Q'ty Part No. SP Description	C67 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V		
lpc 1-562-148-11 s HOUSING, 3P lpc 1-562-260-21 o CONTACT, FEMALE AWG24-28 lpc 1-627-593-11 o PRINTED CIRCUIT BOARD, HP-43	C71 1-124-584-00 s ELECT 100uF 20% 10V C72 1-163-116-00 s CERAMIC, CHIP 91PF 5% 50V C75 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V		
1-627-593-11 o PRINTED CIRCUIT BOARD, HP-43 C1 1-162-773-11 s CERAMIC 0.0047uF 5% 50V	C76 1-163-081-00 s CERAMIC, CHIP 0.22uF 25V C77 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V		
C2 1-162-773-11 s CERAMIC 0.0047uF 5% 50V	C79 1-163-235-11 s CERAMIC 22PF 5% 50V C82 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V		
J1 1-507-980-21 s JACK	C89 1-135-276-21 s TANTALUM, CHIP 1UF 10% 35V C93 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V		
R1 1-249-395-11 s CARBON 15 5% 1/4W R2 1-249-395-11 s CARBON 15 5% 1/4W	C96 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V		
	C97 1-124-584-00 s ELECT 100uF 20% 10V C98 1-124-286-00 s ELECT 33uF 20% 10V C99 1-163-095-00 s CERAMIC, CHIP 12PF 5% 50V C100 1-163-235-11 s CERAMIC 22PF 5% 50V		
	C102 1-163-088-00 s CERAMIC, CHIP 5PF 50V		
	CN1 1-566-960-11 o CONNECTOR, 50P, MALE		
	CV1 1-141-370-11 s CAP, CHIP TRIMMER CV2 1-141-311-11 s CAR, TRIMMER 20PF CV3 1-141-311-11 s CAR, TRIMMER 20PF		

Ref. No. or Q'ty	Part No. SP Description		Ref. No. or Q'ty	Part No. SP Description
D1 D2 D3 D4 D5	8-719-800-76 s DIODE 1SS226 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-948-47 s DIODE HSM88AS 8-719-948-47 s DIODE HSM88AS		Q45 Q46 Q47 Q48 Q49	8-729-109-44 s TRANSISTOR 2SK94 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226
D6 D7 D8 D9	8-719-800-76 s DIODE 1SS226 8-719-104-34 s DIODE 1S2836 8-719-948-47 s DIODE HSM88AS 8-719-948-47 s DIODE HSM88AS		Q50 Q51 Q52 Q53 Q54	8-729-100-66 s TRANSISTOR 2SC1623 8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-175-72 s TRANSISTOR 2SC2757-T33
DL1 DL2	1-415-756-21 s DELAY LINE 1-415-485-11 s 120nS+6nS		Q56 Q57	8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226
IC1 IC4 IC5 IC6	8-759-981-51 s IC RC1496M 8-759-906-53 s IC TL062CPS 1-807-422-11 s IC BH-1217 8-759-906-53 s IC TL062CPS		Q58 Q59 R7	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
IC7 IC8 IC9 IC10	8-759-981-51 s IC RC1496M 8-759-009-51 s IC MC14538BF 8-759-009-51 s IC MC14538BF 8-759-008-79 s IC MC14011BF		R8 R10 R13 R28	1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-641-11 s METAL, CHIP 390 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W
L1 L4 L5 L6 L7	1-408-785-21 s CHIP 47uH 1-410-717-31 s INDUCTOR, CHIP 100uH 1-408-777-00 s CHIP 10uH 1-408-780-21 s INDUCTOR CHIP 18uH 1-410-717-31 s INDUCTOR, CHIP 100uH		R29 R32 R33 R34 R45	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-634-11 s METAL, CHIP 200 0.5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W
LV1	1-408-845-00 s INDUCTOR, VAR, 100uH		R59 R60 R63	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
Q1 Q2 Q3	0 120 122 00 S INMIGIOION CONTECO		R79 R80	1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
Q9 Q10 Q11 Q12	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-100-66 s TRANSISTOR 2SC2757-T33 8-729-100-66 s TRANSISTOR 2SC1623		R81 R82 R88 R89 R91	1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
Q13 Q14 Q15	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-122-63 s TRANSISTOR 2SA1226 8-729-175-72 s TRANSISTOR 2SC2757-T33		R93 R94	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
Q21 Q22 Q23	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-175-72 s TRANSISTOR 2SC2757-T33	•	R108 R109 R110 •	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
Q24 Q25	8-729-122-63 s TRANSISTOR 2SA1226 8-729-109-44 s TRANSISTOR 2SK94		R127 R128 R129	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
Q26 Q27 Q28	8-729-109-44 s TRANSISTOR 2SK94 8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226		R147 R148	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
Q29 Q30	8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94		R161 R162 R163	1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W
Q31 Q32 Q33 Q34 Q35	8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226		R164 RV1 RV2 RV3 RV4	1-237-034-11 s RES, ADJ, METAL 2K 1-237-032-11 s RES, ADJ, METAL 500 1-237-035-11 s RES, ADJ, METAL 5K 1-228-471-00 s RES, ADJ, METAT 1K
Q36 Q37 Q38 Q41 Q42	8-729-122-63 s TRANSISTOR 2SA1226 8-729-100-66 s TRANSISTOR 2SC1623 8-729-109-44 s TRANSISTOR 2SK94 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-175-72 s TRANSISTOR 2SC2757-T33		RV5 RV6 RV7 RV8	1-228-474-00 s RES, ADJ, METAL 10K 1-237-035-11 s RES, ADJ, METAL 5K 1-228-472-00 s RES, ADJ, METAL 2K 1-228-470-00 s RES, ADJ, METAL 500
Q43 Q44	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-109-44 s TRANSISTOR 2SK94		RV10 RV12	1-237-035-11 s RES, ADJ, METAL 5K 1-237-038-11 s RES, ADJ, METAL 5OK

(IE-30AP BOARD)

Ref. No. or Q'ty Part No. SP Description

RV13 1-237-032-11 s RES, ADJ, METAL 500
RV14 1-237-033-11 s RES, ADJ, METAL 1K
S1 1-570-610-11 s SWITCH, TOGGLE

Ref. No. or Q'ty Part No. SP Description A-7520-521-A o MOUNTED CIRCUIT BOARD, IE-31 1-135-216-11 s TANTAL 10uF 20% 10V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V C110 C113 C114 C115 1-135-216-11 s TANTAL 10uF 20% 10V 1-135-177-21 s TANTALUM CHIP luF 10% 25V C116 1-135-216-11 s TANTAL 10uF 20% 10V C118 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V C119 CN4 1-566-475-11 o PIN, SOCKET 3P 1-566-475-11 o PIN, SOCKET 3P 8-719-800-76 s DIODE 1SS226 D10 DL3 1-415-408-11 s DELAY LINE, DUAL 50nS, 100nS 1-415-502-11 s DELAY LINE 100nS ۵65 8-729-122-63 s TRANSISTOR 2SA1226 Q66 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 067 8-729-175-73 s TRANSISTOR 2SC2757 Q68 Q69 8-729-175-73 s TRANSISTOR 2SC2757 070 8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 Q71 Q72 8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226 073 Q74 8-729-100-66 s TRANSISTOR 2SC1623 Q75 8-729-100-66 s TRANSISTOR 2SC1623 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W R203 R204 R205 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W R207 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W R208 R209 1-216-656-11 s METAL, CHIP 1.6K 0.5% 1/10W 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W R211 1-216-042-00 s METAL, CHIP 510 5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W R215 R217 R219 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-633-11 s METAL, CHIP 180 0.5% 1/10W 1-216-651-11 s METAL, CHIP 180 0.5% 1/10W R220 R221 R224 R226 R227 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W R231 1-216-633-11 s METAL, CHIP 180 0.5% 1/10W 1-237-032-11 s RES, ADJ, METAL 500 1-237-032-11 s RES, ADJ, METAL 500 RV17 RV18 RV19 1-237-035-11 s RES, ADJ, METAL 5K S2 1-553-510-00 s SWITCH, SLIDE:

IE-31 BOARD

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IF-298AP BOARD
                                                                        (IF-298AP BOARD)
Ref No
                                                                        Ref. No.
                      SP Description
or Q'ty Part No.
                                                                        or Q'ty Part No.
                                                                                              SP Description
         A-7515-310-B o MOUNTED CIRCUIT BOARD, IF-298AP
                                                                                  8-729-216-22 s TRANSISTOR 2SA1162
1pc
         3-742-032-01 o BRACKET (A), IF
3-742-033-01 o BRACKET (B), IF
                                                                                  8-729-100-66 s TRANSISTOR 2SC1623
1pc
                                                                        211
                                                                                  8-729-100-66 s TRANSISTOR 2SC1623
1pc
                                                                        012
          3-742-072-01 o SPACER (IF)
                                                                                  8-729-100-66 s TRANSISTOR 2SC1623
2pcs
                                                                        Q13
         3-742-073-01 o COVER, IF
1pc
                                                                                  1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
                                                                        R8
         7-621-771-06 s SCREW +B 2X5
                                                                                  1-216-620-11 s METAL, CHIP 51 0.5% 1/10W
                                                                        R9
         7-621-772-50 s SCREW +B 2X10
                                                                                  1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
2pcs
                                                                        R10
                                                                                  1-216-649-11 s METAL, CHIP 820 0.5% 1/10W
                                                                        R11
                                                                                  1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
C2
         1-135-156-21 s TANTAL 6.8uF 10% 6.3V
C5
         1-135-156-21 s TANTAL 6.8uF 10% 6.3V
         1-135-156-21 s TANTAL 6.8uF 10% 6.3V
C10
                                                                                  1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
         1-135-216-11 s TANTAL 10uF 20% 10V
C11
                                                                                  1-216-624-11 s METAL, CHIP 75 0.5% 1/10W
                                                                        R16
         1-135-216-11 s TANTAL 10uF 20% 10V
                                                                                  1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
C13
                                                                        R22
                                                                                  1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
                                                                        R23
C25
         1-135-156-21 s TANTAL 6.8uF 10% 6.3V
                                                                                  1-216-624-11 s METAL, CHIP 75 0.5% 1/10W
                                                                        R24
C31
         1-135-210-11 s TANTALUM 4.7uF 10% 10V
         1-135-216-11 s TANTAL 10uF 20% 10V
C32
                                                                                  1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
                                                                        R28
         1-135-216-11 s TANTAL 10uF 20% 10V
C33
                                                                                  1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
                                                                        R29
                                                                                  1-216-624-11 s METAL, CHIP 75 0.5% 1/10W
                                                                        R30
CNI
         1-506-476-11 o CONNECTOR, 11P, MALE
                                                                                  1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W
                                                                        R40
         1-565-157-11 o CONNECTOR, 10P, MALE
CN<sub>2</sub>
                                                                                  1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
                                                                        R41
         1-565-161-11 o CONNECTOR, 14P, MALE
CN3
                                                                                  1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W
CN4
         1-565-161-11 o CONNECTOR, 14P, MALE
                                                                        R42
         1-506-473-11 o CONNECTOR, 8P, MALE
                                                                                  1-218-761-11 s METAL, CHIP 240K 0.50% 1/10W
CN5
                                                                        R53
                                                                                  1-218-769-11 s METAL, CHIP 510K 0.50% 1/10W
                                                                        R54
         8-719-400-18 s DIODE MA152WK
D1
                                                                                  1-218-769-11 s METAL, CHIP 510K 0.50% 1/10W
                                                                        R64
         8-719-101-58 s DIODE RD5.6EL2
                                                                                  1-208-799-11 s METAL, CHIP 5.1K 0.5% 1/10W
                                                                        R66
         8-719-400-18 s DIODE MA152WK
D3
         8-719-400-18 s DIODE MA152WK
                                                                                  1-570-857-11 s SWITCH, SLIDE
D6
         8-719-800-76 s DIODE 1SS226
D7
                                                                        S2
                                                                                  1-570-857-11 s SWITCH, SLIDE
                                                                                  1-570-857-11 s SWITCH, SLIDE
                                                                        S3
D8
         8-719-400-18 s DIODE MA152WK
                                                                                  1-570-857-11 s SWITCH, SLIDE
                                                                        S4
         8-719-400-18 s DIODE MA152WK
                                                                                  1-570-857-11 s SWITCH, SLIDE
D9
                                                                        $5
         8-719-400-18 s DIODE MA152WK
D10
         8-719-104-34 s DIODE 1S2836
                                                                                  1-570-857-11 s SWITCH, SLIDE
D11
                                                                        S6
         8-719-400-18 s DIODE MA152WK
D12
                                                                                  1-553-510-00 s SWITCH, SLIDE
                                                                        S7
                                                                                  1-553-510-00 s SWITCH, SLIDE
                                                                        S8
D13
         8-719-400-18 s DIODE MA152WK
                                                                                  1-427-613-11 s TRANSFORMER, AUDIO INPUT OUTPUT
                                                                        Τ1
         8-759-209-97 s IC TC4S81F
         8-759-101-12 s IC UPC311G2
IC2
IC3
         8-741-158-80 s IC SBX1588-01
         8-741-158-80 s IC SBX1588-01
TC4
IC5
         8-741-158-80 s IC SBX1588-01
         8-759-071-41 s IC CXD8154BM
         8-759-008-79 s IC MC14011BF
IC7
         8-759-009-19 s IC MC14081BF
TC8
TC9
         8-759-009-19 s IC MC14081BF
IC10
         8-759-207-74 s IC TC4030BFHB
IC11
         8-759-209-90 s IC TC4S71F
         8-759-209-97 s IC TC4S81F
TC12
         8-759-205-78 s IC TC4013BF
IC13
         8-759-209-69 s IC TC4S11F
TC14
         8-759-234-13 s IC TC4S30F
TC15
          8-759-209-57 s IC TC4S69F
IC16
          8-759-209-57 s IC TC4S69F
IC17
         1-408-785-21 s CHIP 47uH
L1
          8-729-100-66 s TRANSISTOR 2SC1623
02
          8-729-141-48 s TRANSISTOR 2SB624-BV345
Q4
          8-729-159-64 s TRANSISTOR 2SD596
          8-729-100-66 s TRANSISTOR 2SC1623
Ω5
          8-729-100-66 s TRANSISTOR 2SC1623
Q6
07
          8-729-100-66 s TRANSISTOR 2SC1623
          8-729-100-66 s TRANSISTOR 2SC1623
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13-69

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in

the parts list.

BVW-300AP(EK) (BKW-301P)

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KY-124 BOARD
                                                                          LP-58 BOARD (Serial No. 41954 through 43999)
                                                                          Ref No
Ref. No.
                                                                                              SP Description
or Q'ty Part No.
                      SP Description
                                                                          or Q'ty Part No.
         1-625-549-11 o PRINTED CIRCUIT BOARD, KY-124
                                                                          lpc
                                                                                   1-562-149-11 o HOUSING, 4P
1pc
                                                                                   1-562-753-11 o CONNECTOR(WAFER), 8P, FEMALE
1-563-088-11 o CONTACT, FEMALE, AWG24-30
                                                                          1pc
         1-565-143-11 o CONNECTOR, 10P, MALE
CN1
                                                                          1pc
                                                                                   1-635-204-12 o PRINTED CIRCUIT BOARD, LP-58
                                                                          1pc
         8-719-049-48 s LED LT-1D11A, RED
DI
D2
          8-719-049-48 s LED LT-1D11A, RED
                                                                         CN2
                                                                                   1-565-135-11 o PIN, CONNECTOR (STRAIGHT) 2P
         8-719-049-48 s LED LT-1D11A, RED
D3
                                                                                   8-719-950-72 s LED BR0035, RED
                                                                         D1
         1-554-371-51 s SWITCH, TACTILE
                                                                                   8-719-812-44 s LED TL0124, ORG
                                                                         D2
         1-554-371-51 s SWITCH, TACTILE
S2
S3
         1-554-371-51 s SWITCH, TACTILE
         1-554-371-51 s SWITCH, TACTILE
S4
S5
         1-554-371-51 s SWITCH, TACTILE
                                                                         LP-64 BOARD (Serial No. 44001 and higher)
                                                                         Ref. No.
                                                                         or Q'ty Part No.
LD-21 BOARD
                                                                                               SP Description
                                                                                   1-643-704-11 o PRINTED CIRCUIT BOARD, LP-64
Ref No.
                                                                                   1-565-164-11 o TERMINAL, SOLDERLESS
or Q'ty Part No.
                    SP Description
                                                                         1 pc
         A-6725-602-A o MOUNTED CIRCUIT BOARD, LD-21
                                                                         CN13
                                                                                   1-565-123-11 o HOUSING, CONNECTOR 4P
         3-723-091-01 o HOLDER, TOP SENSOR
1pc
                                                                                   8-719-026-39 s DIODE CL-150UR-CD
CN1
         1-506-471-11 o CONNECTOR, 6P, MALE
         8-719-106-36 s DIODE RD8. 2M-B3
D1
IC1
         8-759-948-05 s IC BA6229
                                                                         LP-65 BOARD (Serial No. 44001 and higher)
         1-408-773-31 s INDUCTOR CHIP 4.7uH
1.1
         1-408-773-31 s INDUCTOR CHIP 4.7uH
L2
                                                                         Ref. No.
LII
         1-464-909-21 s COIL, SENSOR
                                                                         or Q'ty Part No.
                                                                                               SP Description
Q1
         8-729-100-66 s TRANSISTOR 2SC1623
                                                                                   1-643-705-11 o PRINTED CIRCUIT BOARD, LP-65
                                                                         1 pc
                                                                                  1-565-164-11 o TERMINAL, SOLDERLESS
                                                                         1 pc
                                                                         CN13
                                                                                   1-565-123-11 o HOUSING, CONNECTOR 4P
LP-40 BOARD (Serial No. 41954 through 43999)
                                                                                  8-719-026-16 s DIODE CL-150D-CD
                                                                                   8-719-026-39 s DIODE CL-150UR-CD
                                                                         D2
Ref. No.
                                                                                  8-719-026-16 s DIODE CL-150D-CD
                                                                         D3
or Q'ty Part No. SP Description
         1-562-149-11 o HOUSING, 4P
1pc
         1-562-753-11 o CONNECTOR (WAFER), 8P, FEMALE
1pc
         1-563-088-11 o CONTACT, FEMALE, AWG24-30
1pc
         1-625-086-14 o PRINTED CIRCUIT BOARD, LP-40
1pc
                                                                         LP-66 BOARD (Serial No. 44001 and higher)
D1
         8-719-950-72 s LED BR0035, RED
                                                                         Ref. No.
                                                                         or Q'ty Part No.
                                                                                            SP Description
                                                                                  1-562-147-11 s HOUSING, 2P
                                                                         1pc
                                                                                  1-562-735-11 o HOUSING, 2P
                                                                         1pc
                                                                                  1-563-088-11 o CONTACT, FEMALE, AWG24-30
LP-42 BOARD (Serial No. 41954 through 43999)
                                                                         1pc
                                                                         1pc
                                                                                  1-564-832-11 o CONTACT
                                                                                  1-643-706-11 o PRINTED CIRCUIT BOARD, LP-66
Ref. No.
or Q'ty Part No.
                   SP Description
                                                                                  3-722-474-05 o BRACKET, LP
                                                                         1pc
         1-562-147-11 s HOUSING, 2P
                                                                         2pcs
                                                                                  7-627-556-37 s SCREW, PRECISION +P2.6X4 TYPE 1
         1-562-735-11 o HOUSING, 2P
1-563-088-11 o CONTACT, FEMALE, AWG24-30
lpc
                                                                                  8-719-950-44 s DIODE GL-5LR40, RED
lpc
                                                                                  8-719-950-44 s DIODE GL-5LR40, RED
         1-625-087-11 o PRINTED CIRCUIT BOARD, LP-42
1pc
D1
         8-719-950-44 s DIODE GL-5LR40, RED
         8-719-950-44 s DIODE GL-5LR40, RED
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MB-317AP	BOARD	(MB-317AP BOARD)		
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description		
lpc 2pcs 26pcs	A-7515-314-A o MOUNTED CIRCUIT BOARD, MB-317AP 3-722-391-01 o HOLDER, GP2S09 3-729-061-01 s SCREW (M2X4.5) (TYPE 1)	CN41 1-562-772-11 o CONNECTOR, 12P, FEMALE CN42 1-562-772-11 o CONNECTOR, 12P, FEMALE CN43 1-562-772-11 o CONNECTOR, 12P, FEMALE CN44 1-562-773-11 o CONNECTOR, 40P, FEMALE		
C1 C2 C3 C4 C5	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V	CN50 1-566-397-11 O CONNECTOR, 14P, MALE CN51 1-566-397-11 O CONNECTOR, 14P, MALE CN52 1-506-471-11 O CONNECTOR, 6P, MALE CN53 1-506-469-11 O CONNECTOR, 4P, MALE CN54 1-566-398-11 O CONNECTOR, 16P, MALE		
C6 C7 C61 C62 C63	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V	CN55 1-506-470-11 o CONNECTOR, 5P, MALE CN56 1-506-481-11 o CONNECTOR, 2P, MALE CN57 1-506-470-41 o CONNECTOR, 5P, MALE CN58 1-566-395-11 o CONNECTOR, 10P, MALE		
C64 C65 C66 C101 C102	1-163-143-00 s CERAMIC, CHIP 0.0012uF 5% 50V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	CN59 1-565-157-11 o CONNECTOR, 10P, MALE CN60 1-564-710-11 s CONNECTOR, 8P, MALE CN61 1-506-468-11 o CONNECTOR, 3P, MALE CN62 1-506-469-11 o CONNECTOR, 4P, MALE CN63 1-506-468-11 o CONNECTOR, 3P, MALE		
C103 C104 C105 C106 C121	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-162-638-11 s CERAMIC, CHIP 1uF 16V	CN64 1-564-704-11 o CONNECOR, 2P, MALE CN501 1-506-470-11 o CONNECTOR, 5P, MALE CN502 1-506-471-11 o CONNECTOR, 6P, MALE CN503 1-506-467-11 o CONNECTOR, 2P, MALE CN504 1-506-468-11 o CONNECTOR, 3P, MALE		
C126 C127 C151 C152 C153	1-135-201-11 s TANTALUM 10uF 20% 6.3V 1-135-201-11 s TANTALUM 10uF 20% 6.3V 1-126-403-11 s ELECT 3.3uF 20% 50V 1-126-403-11 s ELECT 3.3uF 20% 50V 1-126-403-11 s ELECT 3.3uF 20% 50V	CN505 1-506-472-11 o CONNECTOR, 7P, MALE CN506 1-506-467-11 o CONNECTOR, 2P, MALE CN507 1-506-467-11 o CONNECTOR, 2P, MALE CN508 1-565-156-11 o CONNECTOR, 9P, MALE CN509 1-506-467-11 o CONNECTOR, 2P, MALE		
C154 C155 C201 C202 C302	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	D1 8-719-800-76 s DIODE 1SS226 D2 8-719-400-18 s DIODE MA152WK D3 8-719-400-18 s DIODE MA152WK D4 8-719-400-18 s DIODE MA152WK D61 8-719-941-23 s DIODE DA204U		
C401 C402 C403 C404 C407	1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V	D62 8-719-941-23 s DIODE DA204U D63 8-719-105-28 s DIODE RD2.4M-B D64 8-719-105-28 s DIODE RD2.4M-B D101 8-719-200-36 s DIODE E10QS04 D102 8-719-200-36 s DIODE E10QS04		
CN1 CN2 CN3 CN4 CN5	1-566-962-11 o CONNECTOR, 50P, FEMALE 1-566-962-11 o CONNECTOR, 50P, FEMALE 1-566-962-11 o CONNECTOR, 50P, FEMALE 1-566-962-11 o CONNECTOR, 50P, FEMALE 1-566-962-11 o CONNECTOR, 50P, FEMALE	D103 8-719-200-36 s DIODE E10QS04 D105 8-719-106-88 s DIODE RD15M-B1 D151 8-719-800-76 s DIODE 1SS226 D152 8-719-800-76 s DIODE 1SS226 D401 8-719-800-76 s DIODE 1SS226		
CN6 CN7 CN8	1-566-962-11 o CONNECTOR, 50P, FEMALE 1-566-962-11 o CONNECTOR, 50P, FEMALE	D402 8-719-800-76 s DIODE 1SS226 D403 8-719-800-76 s DIODE 1SS226		
CN9 CN10 CN11	1-566-962-11 o CONNECTOR, 50P, FEMALE 1-566-962-11 o CONNECTOR, 50P, FEMALE 1-566-962-11 o CONNECTOR, 50P, FEMALE	IC2 8-759-300-71 s IC MC14053BF IC3 8-759-209-57 s IC TC4S69F IC4 8-759-209-57 s IC TC4S69F IC61 8-759-906-53 s IC TL062CPS		
CN12 CN13 CN21 CN22	1-566-962-11 o CONNECTOR, 50P, FEMALE 1-566-962-11 o CONNECTOR, 50P, FEMALE 1-566-400-11 o CONNECTOR, 20P, MALE 1-566-391-11 o CONNECTOR 12P	IC62 8-759-300-71 s IC MC14053BF IC63 8-759-981-86 s IC RC4556MA IC101 8-759-805-06 s IC CXA1127M		
CN23 CN24 CN25	1-506-468-11 o CONNECTOR, 3P, MALE 1-506-470-11 o CONNECTOR, 5P, MALE 1-506-468-11 o CONNECTOR, 3P, MALE	IC102 8-759-981-92 s IC RC4558M IC121 8-759-981-92 s IC RC4558M IC122 8-759-981-92 s IC RC4558M		
CN31 CN32	1-566-536-11 s CONNECTOR, 20P 1-566-536-11 s CONNECTOR, 20P	IC151 8-759-981-54 s IC RC2041MD IC201 8-759-200-88 s IC TC4512BF IC202 8-759-200-88 s IC TC4512BF		

(MB-317AP BOARD)

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Ref. No.
                       SP Description
or Q'ty Part No.
          8-759-981-65 s IC LM2903M
IC401
          8-759-605-18 s IC CX-518
IC402
          8-759-209-90 s IC TC4S71F
IC403
          8-759-300-71 s IC MC14053BF
IC404
          8-759-209-97 s IC TC4S81F
IC405
          1-408-785-21 s CHIP 47uH
LI
          1-408-785-21 s CHIP 47uH
L2
          1-408-781-00 s CHIP 22uH
L3
          1-408-785-21 s CHIP 47uH
L16
          1-408-776-00 s INDUCTOR CHIP 8.2uH
L151
          1-408-776-00 s INDUCTOR CHIP 8.2uH
L152
          8-719-939-05 s PHOTOINTERRUPTER GP-1S54
PD31
          8-719-939-05 s PHOTOINTERRUPTER GP-1S54
PD32
          8-719-939-05 s PHOTOINTERRUPTER GP-1S54
PD33
PD34
          8-719-939-05 s PHOTOINTERRUPTER GP-1S54
PD35
          8-719-939-05 s PHOTOINTERRUPTER GP-1S54
PD36
          8-719-939-11 s PHOTOINTERRUPTER GP-2S09-B
          8-719-939-11 s PHOTOINTERRUPTER GP-2S09-B
PD37
          8-729-141-48 s TRANSISTOR 2SB624-BV345
          8-729-117-32 s TRANSISTOR 2SC4177
02
          8-729-117-32 s TRANSISTOR 2SC4177
Q3
Q4
          8-729-117-32 s TRANSISTOR 2SC4177
Q5
          8-729-117-16 s TRANSISTOR 2SA1611-M6
Q6
          8-729-117-32 s TRANSISTOR 2SC4177
          8-729-117-32 s TRANSISTOR 2SC4177
031
          8-729-117-32 s TRANSISTOR 2SC4177
8-729-117-32 s TRANSISTOR 2SC4177
032
Q33
          8-729-117-32 s TRANSISTOR 2SC4177
Q34
          8-729-117-32 s TRANSISTOR 2SC4177
Q35
          8-729-117-32 s TRANSISTOR 2SC4177
Q36
          8-729-117-32 s TRANSISTOR 2SC4177
Q37
          8-729-106-68 s TRANSISTOR 2SC1615A-GP
0107
          8-729-109-44 s TRANSISTOR 2SK94
Q108
          8-729-271-31 s TRANSISTOR 2SC2713G
Q151
Q201
          8-729-216-22 s TRANSISTOR 2SA1162
          8-729-421-71 s TRANSISTOR 2SK620
Q202
          8-729-906-33 s TRANSISTOR DTC114YU
0301
          8-729-117-16 s TRANSISTOR 2SA1611-M6
Q401
Q402
          8-729-117-32 s TRANSISTOR 2SC4177
          8-729-109-44 s TRANSISTOR 2SK94
Q403
          8-729-117-32 s TRANSISTOR 2SC4177
Q404
Q405
          8-729-117-16 s TRANSISTOR 2SA1611-M6
          8-729-175-72 s TRANSISTOR 2SC2757-T33
0501
          1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R7
          1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W
R8
          1-216-680-11 s METAL, CHIP 16K 0.5% 1/10W
R9
          1-216-684-11 s METAL, CHIP 24K 0.5% 1/10W
R10
          1-216-624-11 s METAL, CHIP 75 0.5% 1/10W
R11
R72
          1-216-624-11 s METAL, CHIP 75 0.5% 1/10W
          1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W
1-216-662-11 s METAL, CHIP 1.5K 0.5% 1/10W
1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W
R74
R75
R78
          1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W
R101
R103
          1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
          1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W
R104
          1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
R116
R121
R122
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(MB-317AP BOARD)

Ref No

or Q'ty	Part No. SP Description
R123 R124 R153 R154 R155	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216 638·11 s METAL, CHIP 300 0.5% 1/10W
R157 R158 R161 R162 R163	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
R164 R166 R167 R168 R169	1-216-671-11 s METAL. CHIP 6.8K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
R509 R514	1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-114-00 s METAL 510K 5% 1/10W

PA-101 E			(PA~101	BOARD)
Ref. No.		SP Description	Ref. No. or Q'ty	Part No. SP Description
lpc	A-7513-958-A	O MOUNTED CIRCUIT BOARD, PA-101	Q29 Q30	8-765-930-08 s TRANSISTOR 3SK163-2 8-729-175-72 s TRANSISTOR 2SC2757-T33
C3	1-163-235-11	s CERAMIC 22PF 5% 50V	Q31	8-729-216-22 s TRANSISTOR 2SA1162
C4	1-163-235-11	ls CERAMIC 22PF 5% 50V	Q32	8-729-122-63 s TRANSISTOR 2SA1226
C8	1-163-235-11	S CERAMIC 22PF 5% 50V	Q33	8-765-930-08 s TRANSISTOR 3SK163-2
C10 C16		Os CERAMIC, CHIP 20PF 5% 50V Is CERAMIC 22PF 5% 50V	Q34	8-729-120-28 s TRANSISTOR 2SC1623
CIO	1 100 200 11	S CHAMINE LEFT ON SOT	Q35	8-729-122-63 s TRANSISTOR 2SA1226
C17		s CERAMIC 22PF 5% 50V	Q36	8-765-930-08 s TRANSISTOR 3SK163-2
C19		S CERAMIC 22PF 5% 50V	Q37	8-729-120-28 s TRANSISTOR 2SC1623
C21 C28) s CERAMIC, CHIP 75PF 5% 50V s CERAMIC 22PF 5% 50V	Q39	8-729-122-63 s TRANSISTOR 2SA1226
C29		s CERAMIC 22PF 5% 50V	Q40	8-765-930-08 s TRANSISTOR 3SK163-2
			Q41	8-729-120-28 s TRANSISTOR 2SC1623
C32		S CERAMIC 22PF 5% 50V	Q43	8-765-930-08 s TRANSISTOR 3SK163-2
C34 C41	1-163-107-00) s CERAMIC, CHIP 39PF 5% 50V s CERAMIC 22PF 5% 50V	Q44 Q45	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-120-28 s TRANSISTOR 2SC1623
C41		S CERAMIC 22PF 5% 50V	Q43	0-125-120-20 \$ TRANSISTOR ESSIED
C48	1-163-118-00	s CERAMIC, CHIP 110PF 5% 50V	Q46	8-729-175-72 s TRANSISTOR 2SC2757-T33
		OPPLATO ONLD GORE SW FOR	Q47	8-729-120-28 s TRANSISTOR 2SC1623
C49 C50	1-163-100-00) s CERAMIC, CHIP 20PF 5% 50V) s CERAMIC, CHIP 300PF 5% 50V	Q48	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-122-63 s TRANSISTOR 2SA1226
	1-163-128-00		Q49 Q50	8-765-930-08 s TRANSISTOR 35K163-2
C52		s CERAMIC, CHIP 560PF 5% 50V	400	
		COUNTROL OF MALE	Q51	8-729-802-80 s TRANSISTOR 2SC3661
CN1 CN2		O CONNECTOR, 6P, MALE O CONNECTOR, 4P, MALE	Q52	8-729-122-63 s TRANSISTOR 2SA1226 8-765-930-08 s TRANSISTOR 3SK163-2
CN2 CN3	1-563-238-11	o CONNECTOR, 15P, FEMALE	Q53 Q54	8-729-802-80 s TRANSISTOR 2SC3661
CN4	1-506-467-11	o CONNECTOR, 2P, MALE	Q55	8-729-216-22 s TRANSISTOR 2SA1162
CN5	1-506-467-11	o CONNECTOR, 2P, MALE		
CN6	1-506-467-11	o CONNECTOR, 2P, MALE	Q56 Q57	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162
FLT	1-226-194-11	s TRAP 14.3MHz	D.1	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
FL2		s TRAP 14.3MHz s TRAP 14.3MHz s TRAP 14.3MHz	R1 R13	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
FL3	1-236-184-11	s TRAP 14.3MHz	R20	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
0.1	0 700 100 00	a - TRINCTOTAR 9C4199C	R22	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
Q1 Q2	8-729-122-03	S S TRANSISTOR 2SA1226 S S TRANSISTOR 3SK163-2	R23	1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W
Q3		B S TRANSISTOR 2SC1623	R26	1-216-603-11 s METAL, CHIP 10 0.5% 1/10W
Q4		8 s TRANSISTOR 2SA1226	R29	1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W
Q5	8-765-930-08	3 s TRANSISTOR 3SK163-2	R31 R43	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
Q6	8-729-802-80	s TRANSISTOR 2SC3661	R43	1-216-651-11 s MÉTAL, CHIP 1K 0.5% 1/10W
Q7	8-729-122-63	B s TRANSISTOR 2SA1226		
Q8	8-765-930-08	3 s TRANSISTOR 3SK163-2) s TRANSISTOR 2SC3661	R49	1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-693-11 s METAL, CHIP 56K 0.5% 1/10W
Q9 Q10	8-729-175-75	S TRANSISTOR 2SC2757-T33	R50 R51	1-216-635-11 s METAL, CHIP 220 0.5% 1/10W
			R54	1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W
Q11	8-729-120-28	B s TRANSISTOR 2SC1623	R55	1-216-603-11 s METAL, CHIP 10 0.5% 1/10W
Q12	8-729-175-75	2 s TRANSISTOR 2SC2757-T33 8 s TRANSISTOR 2SC1623	D00	1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W
Q13 Q14	8-765-930-0		R60 R61	1-216-643-11 S METAL, CHIP 470 0.5% 1/10\(\text{10}\)
Q15	8-729-175-7	2 s TRANSISTOR 2SC2757-T33	R74	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
			R78	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
Q16		3 s TRANSISTOR 2SA1226 8 s TRANSISTOR 3SK163-2	R82	1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W
Q17 Q18		8 s TRANSISTOR 2SC1623	R83	1-216-106-00 s METAL CHIP 240K 5% 1/10W
Q19	8-729-122-6	3 s TRANSISTOR 2SA1226	R84	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
Q20	8-765-930-0	8 s TRANSISTOR 3SK163-2	R87	1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W
Q21	8-729-802-8	0 s TRANSISTOR 2SC3661	R88	1-216-603-11 s METAL, CHIP 10 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
Q22	8-729-122-6	3 s TRANSISTOR 2SA1226	R101	•
Q23	8-765-930-0	8 s TRANSISTOR 3SK163-2	R104	1-216-670-11 s METAL, CHIP 6.2K 0.5% 1/10W
Q24		0 s TRANSISTOR 2SC3661	R107	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
Q25		2 s TRANSISTOR 2SC2757-T33	R114	1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
Q26		8 s TRANSISTOR 2SC1623	RV1	1-237-041-11 s RES, ADJ, METAL 500K
Q27 Q28		2 s TRANSISTOR 2SC2757-T33 8 s TRANSISTOR 2SC1623	RV2	1-237-041-11 s RES, ADJ, METAL 500K 1-237-041-11 s RES, ADJ, METAL 500K
420	0 120 120 2	C Tambototon Bostono	RV3	1-231-041-11 S REG, ADJ, METAL SOUN

BVW-300AP(EK) (BKW-301P)

DD 176		(PR-176 BOARD)			
PR-176 BOARD (PR-176 BOARD)					
Ref. No.	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description			
1pc	A-8271-333-A o MOUNTED CIRCUIT BOARD, PR-176 (including PR-177 and PR-178 board)	C143 1-131-365-00 s TANTALUM 10uF 10% 20V C150 1-163-222-11 s CERANIC 5PF 0.25PF 50V			
1pc 1pc 5pcs	3-724-710-01 o PLATE (PR-102), ORNAMENTAL 3-724-753-01 o RING 3-729-061-01 s SCREW (M2X4.5) (TYPE 1)	C151 1-163-222-11 s CERAMIC 5PF 0.25PF 50V C152 1-163-222-11 s CERAMIC 5PF 0.25PF 50V C153 1-163-237-11 s CERAMIC 27PF 5% 50V			
lpc lpc	7-623-952-21 s WASHER 2.0, FIBER 7-688-001-12 s W 2, MIDDLE	C154 1-163-237-11 s CERAMIC 27PF 5% 50V C155 1-163-237-11 s CERAMIC 27PF 5% 50V			
C3 C4 C6 C9 C13	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V	CN1 1-566-960-11 o CONNECTOR, 50P, MALE CN2 1-568-613-11 o CONNECTOR, FEMAIL, 2P CN4 1-568-613-11 o CONNECTOR, FEMAIL, 2P CN5 1-563-949-11 o SOCKET, SIL 8P CN8 1-568-613-11 o CONNECTOR, FEMAIL, 2P			
C18 C21 C23	1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V	CN9 1-568-613-11 o CONNECTOR, FEMAIL, 2P CN12 1-568-613-11 o CONNECTOR, FEMAIL, 2P			
C28 C29	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V	CV1 1-141-369-22 s CAP, CHIP TRIMMER CV2 1-141-369-22 s CAP, CHIP TRIMMER CV3 1-141-369-22 s CAP, CHIP TRIMMER			
C30 C31 C40 C41 C43	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-135-210-11 s TANTALUM 4.7uF 10% 10V 1-135-210-11 s TANTALUM 4.7uF 10% 10V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V	D2 8-719-815-59 s DIODE 1S1555-S D4 8-719-400-18 s DIODE MAI52WK D5 8-719-815-59 s DIODE 1S1555-S D7 8-719-400-18 s DIODE MAI52WK D8 8-719-815-59 s DIODE IS1555-S			
C44 C47 C48 C49 C52	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V	D12 8-719-815-59 s DIODE ISI555-S D13 8-719-815-59 s DIODE ISI555-S D14 8-719-815-59 s DIODE ISI555-S D15 8-719-027-95 s DIODE HSM88WK D17 8-719-815-59 s DIODE ISI555-S			
C54 C56 C57 C60 C62	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V	D18 8-719-815-59 s DIODE 1S1555-S D19 8-719-815-59 s DIODE 1S1555-S D20 8-719-027-95 s DIODE HSM88WK D21 8-719-815-59 s DIODE 1S1555-S			
C67 C68 C69 C70	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-135-159-21 s TANTALUM CHIP 10uF 10% 20V	D22 8-719-815-59 s DIODE IS1555-S D23 8-719-815-59 s DIODE IS1555-S D25 8-719-400-18 s DIODE MA152WK D26 8-719-800-76 s DIODE ISS226 D27 8-719-400-18 s DIODE MA152WK D28 8-719-400-18 s DIODE MA152WK			
C80 C81 C84 C85 C86	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V I-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V	D29 - 8-719-400-18 s DIODE MAI52WK D30 8-719-800-76 s DIODE ISS226 D34 8-719-400-18 s DIODE MAI52WK D35 8-719-800-76 s DIODE MAI52WK			
C89 C94 C97 C99 C104	1-135-177-21 s TANTALUM CHIP 1uF 10% 25V 1-162-638-11 s CERAMIC, CHIP 1uF 16V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V	DL1 1-415-489-31 s DELAY LINE DL2 1-415-489-31 s DELAY LINE DL3 1-415-489-31 s DELAY LINE IC1 8-759-906-54 s IC TL064CNS			
C104 C105 C106 C107 C128 C129	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-135-161-21 s TANTAL 22uF 10% 10V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V	IC1 8-759-906-54 \$ IC TL064CNS IC2 8-759-906-53 \$ IC TL062CPS IC3 8-759-906-54 \$ IC TL064CNS IC5 8-759-906-53 \$ IC TL062CPS IC7 8-759-906-53 \$ IC TL062CPS IC11 1-810-067-11 \$ BP-020			
C130 C136 C137 C138 C139	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-163-131-00 s CERAMIC, CHIP 390PF 5% 50V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-135-165-11 s TANTAL 33uF 10% 16V	IC12 1-810-066-11 s BP-021 See page 13-77 and 13-78, for the parts list of the BP-020 and the BP-021.			
C140	1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V				

(PR-176 BOARD)		(PR-176	BOARD)
Ref. No. or Q'ty Part No. SP Description		Ref. No. or Q'ty	Part No. SP Description
L1 1-408-785-21 s CHIP 47uH L2 1-408-785-21 s CHIP 47uH L3 1-408-781-00 s CHIP 22uH		Q71 Q72 Q90	8-729-403-29 s TRANSISTOR XN6435 8-729-109-44 s TRANSISTOR 2SK94 8-729-403-32 s TRANSISTOR XN6534
Q1 8-729-175-73 s TRANSISTOR 2SC2757 Q2 8-729-122-63 s TRANSISTOR 2SA1226 Q3 8-729-403-29 s TRANSISTOR XN6435 Q4 8-729-403-32 s TRANSISTOR XN6534		Q91 Q92 Q93 Q95	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226
Q5 8-729-403-32 s TRANSISTOR XN6534 Q6 8-729-403-32 s TRANSISTOR XN6534 Q7 8-729-122-63 s TRANSISTOR 2SA1226 Q8 8-765-930-08 s TRANSISTOR 3SK163-2		R2 R4 R5 R8	1-216-637-11 s METAL, CHIP 270 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W
Q9 8-729-116-64 s TRANSISTOR 2SK508-K51 Q10 8-729-403-32 s TRANSISTOR XN6534		R9 R11	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-672-11 s METAL, CHIP 7.5K 0.5% 1/10W
Q11 8-729-109-44 s TRANSISTOR 2SK94 Q12 8-729-109-44 s TRANSISTOR 2SK94 Q13 8-729-403-29 s TRANSISTOR XN6435 Q14 8-729-403-29 s TRANSISTOR XN6435 Q16 8-729-403-29 s TRANSISTOR XN6435		R12	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.0K 0.5% 1/10W 1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W
Q17 8-729-403-29 s TRANSISTOR XN6435 Q18 8-729-122-63 s TRANSISTOR 2SA1226 Q19 8-729-403-29 s TRANSISTOR XN6435 Q20 8-729-403-32 s TRANSISTOR XN6534 Q21 8-729-109-44 s TRANSISTOR 2SK94	· · · · · · · · · · · · · · · · · · ·	R25 R26	1-216-692-11 s METAL, CHIP 51K 0.5% 1/10W 1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W
Q28 8-729-122-63 s TRANSISTOR 2SA1226 Q29 8-729-175-73 s TRANSISTOR 2SC2757 Q30 8-729-122-63 s TRANSISTOR 2SA1226 Q31 8-729-403-29 s TRANSISTOR XN6435 Q32 8-729-403-32 s TRANSISTOR XN6534	-	R29 R32 R33	1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-686-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W
Q33 8-729-403-32 s TRANSISTOR XN6534 Q34 8-729-403-32 s TRANSISTOR XN6534 Q35 8-729-122-63 s TRANSISTOR 2SA1226 Q36 8-765-930-08 s TRANSISTOR 3SK163-2 Q37 8-729-116-64 s TRANSISTOR 2SK508-K51		R40 R42 R43	1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W 1-216-676-11 s METAL, CHIP 11K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
Q38 8-729-403-32 s TRANSISTOR XN6534 Q39 8-729-109-44 s TRANSISTOR 2SK94 Q40 8-729-109-44 s TRANSISTOR 2SK94 Q41 8-729-403-29 s TRANSISTOR XN6435 Q42 8-729-403-29 s TRANSISTOR XN6435		R48 R50 R51	1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 1-216-684-11 s METAL, CHIP 24K 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W 1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W 1-216-666-11 s METAL, CHIP 4.3K 0.5% 1/10W
Q44 8-729-403-29 s TRANSISTOR XN6435 Q45 8-729-403-32 s TRANSISTOR XN6534 Q46 8-729-403-29 s TRANSISTOR XN6435 Q47 8-729-109-44 s TRANSISTOR 2SK94 Q54 8-729-175-73 s TRANSISTOR 2SC2757		R57 R58 R61	1-216-649-11 s METAL, CHIP 820 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W
Q55 8-729-122-63 s TRANSISTOR 2SA1226 Q56 8-729-403-29 s TRANSISTOR XN6435 Q57 8-729-403-32 s TRANSISTOR XN6534 Q58 8-729-403-32 s TRANSISTOR XN6534 Q59 8-729-403-32 s TRANSISTOR XN6534		R68 R69 R70	1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W 1-216-648-11 s METAL, CHIP 750 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
Q60 8-729-122-63 s TRANSISTOR 2SA1226 Q61 8-765-930-08 s TRANSISTOR 3SK163-2 Q62 8-729-116-64 s TRANSISTOR 2SK508-K51 Q63 8-729-403-32 s TRANSISTOR XN6534 Q64 8-729-109-44 s TRANSISTOR 2SK94		R100 R102 R103 R106	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
Q65 8-729-109-44 s TRANSISTOR 2SK94 Q66 8-729-403-29 s TRANSISTOR XN6435 Q67 8-729-403-29 s TRANSISTOR XN6435 Q69 8-729-403-29 s TRANSISTOR XN6435 Q70 8-729-403-32 s TRANSISTOR XN6534		R108 R110 R111	1-216-662-11 s METAL, CHIP 3K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-672-11 s METAL, CHIP 7.5K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W

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Ref. No. or Q'ty	Part No. SP Description
R115 R119 R120 R125 R126	1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-692-11 s METAL, CHIP 51K 0.5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W
R127 R131 R133 R135 R136	1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W 1-216-672-11 s METAL, CHIP 7.5K 0.5% 1/10W
R139 R140 R142 R143 R144	1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 1-216-684-11 s METAL, CHIP 24K 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W 1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W 1-216-666-11 s METAL, CHIP 4.3K 0.5% 1/10W
R147 R149 R150 R154 R155	1-216-649-11 s METAL, CHIP 820 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W 1-216-648-11 s METAL, CHIP 750 0.5% 1/10W
R156 R159 R177 R180 R181	1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R184 R185 R187 R188 R189	1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-672-11 s METAL, CHIP 7.5K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
R192 R196 R197 R198 R202	1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W
R203 R204 R208 R210 R212	1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W
R213 R215 R217 R218 R220	1-216-676-11 s METAL, CHIP 11K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 1-216-684-11 s METAL, CHIP 24K 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
R221 R222 R225 R227 R228	1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W 1-216-666-11 s METAL, CHIP 4.3K 0.5% 1/10W 1-216-649-11 s METAL, CHIP 820 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
R232 R233 R234 R237 R297	1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W 1-216-648-11 s METAL, CHIP 750 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
R298 R299 R331 R332 R333	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W

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Ref. No. or Q'ty	Part No. SP Description
R336 R337 R338 R340 R341	1-216-672-11 s METAL, CHIP 7.5K 0.5% 1/10W 1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W
R342 R343 R344 R352 R353	1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W
R359 ·	1-216-692-11 s METAL, CHIP 51K 0.5% 1/10W
RV1	1-237-032-11 s RES, ADJ, METAL 500
RV2	1-228-472-00 s RES, ADJ, METAL 2K
RV3	1-228-472-00 s RES, ADJ, METAL 2K
RV4	1-228-472-00 s RES, ADJ, METAL 2K
RV7	1-237-034-11 s RES, ADJ, METAL 2K
RV8	1-228-473-00 s RES, ADJ, METAL 5K
RV9	1-228-473-00 s RES, ADJ, METAL 5K
RV10	1-228-473-00 s RES, ADJ, METAL 5K
RV12	1-228-471-00 s RES, ADJ, METAT 1K
RV13	1-228-471-00 s RES, ADJ, METAT 1K
RV14	1-228-471-00 s RES, ADJ, METAT 1K
RV15	1-228-470-00 s RES, ADJ, METAL 500
RV16	1-228-470-00 s RES, ADJ, METAL 500
RV17	1-228-470-00 s RES, ADJ, METAL 500
RV18	1-228-473-00 s RES, ADJ, METAL 5K
RV19	1-228-473-00 s RES, ADJ, METAL 5K
RV20	1-228-473-00 s RES, ADJ, METAL 5K
RV21	1-237-032-11 s RES, ADJ, METAL 500
RV23	1-237-034-11 s RES, ADJ, METAL 2K
RV24	1-237-034-11 s RES, ADJ, METAL 2K
RV25	1-237-032-11 s RES, ADJ, METAL 500
RV28	1-237-034-11 s RES, ADJ, METAL 2K
RV29	1-237-034-11 s RES, ADJ, METAL 2K
RV38	1-237-034-11 s RES, ADJ, METAL 2K
\$1	1-570-857-11 s SWITCH, SLIDE
\$2	1-570-857-11 s SWITCH, SLIDE
\$3	1-570-857-11 s SWITCH, SLIDE
\$4	1-570-373-12 s SWITCH, SLIDE
\$5	1-570-373-12 s SWITCH, SLIDE

Ref. No. or Q'ty	Part No. SP Description
lpc	1-810-067-11 s BP-020 (IC11)
C116 C117 C119 C120 C121	1-135-165-11 s TANTAL 33uF 10% 16V 1-135-165-11 s TANTAL 33uF 10% 16V 1-135-165-11 s TANTAL 33uF 10% 16V 1-135-165-11 s TANTAL 33uF 10% 16V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
C122 C124 C126 C131 C133	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
C158	1-135-163-21 s TANTAL 47uF 10% 4V
CN7 CN8 CN9 CN10 CN11	1-568-624-11 o CONNECTOR, MAIL, 4P 1-568-622-11 o CONNECTOR, MAIL, 2P 1-568-622-11 o CONNECTOR, MAIL, 2P 1-568-624-11 o CONNECTOR, MAIL, 4P 1-568-623-11 o CONNECTOR, MAIL, 3P
CN12	1-568-622-11 o CONNECTOR, MAIL, 2P
D9 D10 D11 D24 D31	8-719-104-34 s DIODE 152836 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-948-47 s DIODE HSM88AS 8-719-400-18 s DIODE MA152WK
D36	8-719-104-34 s DIODE 1S2836
IC9 IC10	8-759-906-53 s IC TL062CPS 8-759-300-71 s IC MC14053BF
Q79 Q80 Q81 Q82 Q83	8-729-403-29 s TRANSISTOR XN6435 8-729-159-65 s TRANSISTOR 2SD596-DV5 8-729-403-32 s TRANSISTOR XN6534 8-729-403-32 s TRANSISTOR XN6534 8-729-403-32 s TRANSISTOR XN6534
Q84 Q86 Q87 Q88 Q89	8-729-403-32 s TRANSISTOR XN6534 8-729-403-32 s TRANSISTOR XN6534 8-729-403-32 s TRANSISTOR XN6534 8-729-403-29 s TRANSISTOR XN6435 8-729-175-73 s TRANSISTOR 2SC2757
Q 96	8-729-122-63 s TRANSISTOR 2SA1226
R258 R259 R260 R261 R262	1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W
R263 R264 R265 R268 R269	1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-665-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W
R270 R271 R272 R273 R276	1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-104-00 s METAL 200K 0.50% 1/10W
R277 R278 R279	1-216-104-00 s METAL 200K 0.50% 1/10W 1-216-104-00 s METAL 200K 0.50% 1/10W 1-216-104-00 s METAL 200K 0.50% 1/10W

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or Q'ty Part No.
                                     SP Description
                1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W
R288
               1-216-675-11 s METAL, CHIP 2X 0.3% 1/10W
1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
1-216-686-11 s METAL, CHIP 10K 0.5% 1/10W
1-216-685-11 s METAL, CHIP 30K 0.5% 1/10W
1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W
R325
R326
R327
R328
               1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
1-216-649-11 s METAL, CHIP 820 0.5% 1/10W
1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W
1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W
1-237-036-11 s RES, ADJ, METAL 10K
R329
R345
R346
R347
RV30
                1-237-036-11 s RES, ADJ, METAL 10K
RV31
RV32
                1-237-036-11 s RES, ADJ, METAL 10K
RV33
                1-237-036-11 s RES, ADJ, METAL 10K
                1-237-035-11 s RES, ADJ, METAL 5K
RV34
                1-237-034-11 s RES, ADJ, METAL 2K
RV35
                1-237-034-11 s RES, ADJ, METAL 2K
1-237-035-11 s RES, ADJ, METAL 5K
RV36
RV37
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R250

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PS-162B BOARD
(BP-021)
                                                                             Ref. No.
Ref. No.
                                                                                                 "SP Description
or Q'ty Part No.
                      SP Description
                                                                             or Q'ty Part No.
                                                                                       A-6723-368-A o MOUNTED CIRCUIT BOARD PS-162
          1-810-066-11 s BP-021 (IC12)
1pc
                                                                                                       Serial No. UP TO 42095
          1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
                                                                                       A-8271-736-A o MOUNTED CIRCUIT BOARD PS-162B
C30
                                                                             lpc.
         1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
                                                                                                       Serial No. 42096 and higher
C36
         1-163-275-11 s CERAMIC 0.001uF 5% 50V
                                                                                       3-724-752-01 o HOLDER (PS), PC BOARD
C37
                                                                             1pc
         1-163-245-11 s CERAMIC 56PF 5% 50V
                                                                                       3-729-012-01 s SCREW (M2X5)
C38
                                                                             lpc
          1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
                                                                                       7-623-420-07 s LW 2, TYPE B
C69
                                                                             1pc
          1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
                                                                             C1
                                                                                       1-126-163-11 s ELECT 4.7MF 20% 50V
C75
                                                                                       1-125-309-00 s DOUBLE LAYERS 0.33FARAD 5.5V
          1-163-275-11 s CERAMIC 0.001uF 5% 50V
                                                                             C4
C76
          1-163-245-11 s CERAMIC 56PF 5% 50V
                                                                                       1-124-248-00 s ELECT 22uF 20% 35V
                                                                             C5
C77
         1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
C106
                                                                                    △ 1-532-681-00 s CIRCUIT BREAKER 4A 125V
                                                                             CB1
C112
                                                                                       1-564-705-11 o CONNECTOR, 3P, MALE
C113
          1-163-275-11 s CERAMIC 0.001uF 5% 50V
                                                                             CN1
                                                                                       1-564-707-11 o CONNECTOR, 5P, MALE
          1-163-245-11 s CERAMIC 56PF 5% 50V
                                                                             CN<sub>2</sub>
C114
                                                                             CN3
                                                                                       1-506-468-11 o CONNECTOR, 3P, MALE
                                                                                       1-506-468-11 o CONNECTOR, 3P, MALE
          1-568-622-11 o CONNECTOR, MAIL, 2P
                                                                             CN<sub>4</sub>
CN2
         1-568-623-11 o CONNECTOR, MAIL, 3P
                                                                                       1-564-710-11 s CONNECTOR, 8P, MALE
CN3
                                                                             CN<sub>5</sub>
         1-568-622-11 o CONNECTOR, MAIL, 2P
CN4
          1-568-624-11 o CONNECTOR, MAIL, 4P
                                                                                       1-695-903-21 s CONNECTOR, 12P
                                                                             CN6
                                                                                       1-564-704-11 o CONNECOR, 2P, MALE
CN6
          1-568-624-11 o CONNECTOR, MAIL, 4P
                                                                             CN7
                                                                                       1-506-469-11 o CONNECTOR, 4P, MALE
                                                                             CN8
          1-568-624-11 o CONNECTOR, MAIL, 4P
                                                                                       1-564-706-11 o PIN HEADER, STRAIGHT 4P
CN13
                                                                             CN10
         8-729-403-29 s TRANSISTOR XN6435
                                                                                      8-719-911-55 s DIODE U05G
8-719-800-76 s DIODE 1SS226
022
         8-729-403-29 s TRANSISTOR XN6435
Q23
                                                                             D2
         8-729-403-32 s TRANSISTOR XN6534
                                                                                       8-719-800-76 s DIODE 1SS226
Q24
                                                                             D3
          8-729-122-63 s TRANSISTOR 2SA1226
                                                                                       8-719-911-55 s DIODE U05G
025
                                                                             D4
          8-729-122-63 s TRANSISTOR 2SA1226
                                                                                       8-719-160-20 s DIODE RD4.7FB
026
                                                                             D5
          8-729-175-73 s TRANSISTOR 2SC2757
                                                                                       8-759-906-53 s IC TL062CPS
027
                                                                             IC1
          8\text{-}729\text{-}403\text{-}29 s TRANSISTOR XN6435
Q48
                                                                                       8-759-939-41 s IC S-81230AG-RB
                                                                             IC2
          8\text{-}729\text{-}403\text{-}29 s TRANSISTOR XN6435
049
          8-729-403-32 s TRANSISTOR XN6534
050
                                                                                       8-729-202-62 s TRANSISTOR 2SD1221
                                                                             Ω1
          8-729-122-63 s TRANSISTOR 2SA1226
                                                                                       8-729-100-66 s TRANSISTOR 2SC1623
051
                                                                             Q2
                                                                                       8-729-119-59 s TRANSISTOR 2SK612-Z
                                                                             Q3
          8-729-122-63 s TRANSISTOR 2SA1226
Q52
                                                                                       8-729-109-44 s TRANSISTOR 2SK94
          8-729-175-73 s TRANSISTOR 2SC2757
Q53
          8-729-403-29 s TRANSISTOR XN6435
                                                                                       1-249-389-11 s CARBON 4.7 5% 1/4W
Q73
                                                                             R1
          8-729-403-29 s TRANSISTOR XN6435
074
Q75
          8-729-403-32 s TRANSISTOR XN6534
                                                                                       1-230-873-11 s RES, ADJ, METAL 47K
                                                                             RV1
076
          8-729-122-63 s TRANSISTOR 2SA1226
                                                                                       1-570-610-11 s SWITCH, TOGGLE
                                                                             S1
          8-729-122-63 s TRANSISTOR 2SA1226
077
                                                                                       1-570-610-11 s SWITCH, TOGGLE
          8-729-175-73 s TRANSISTOR 2SC2757
078
R81
          1-216-058-00 s METAL 2.4K 5% 1/10W
          1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R91
          1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R92
          1-216-064-00 s METAL, CHIP 4.3K 5% 1/10W 1-216-058-00 s METAL 2.4K 5% 1/10W
R96
R167
          1-216-644-11 s METAL, CHIP 510 0.5% 1/10W 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R171
R172
          1-216-064-00 s METAL, CHIP 4.3K 5% 1/10W
R176
          1-216-058-00 s METAL 2.4K 5% 1/10W
R245
          1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R249
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1-216-644-11 s METAL, CHIP 510 0.5% 1/10W

1-216-064-00 s METAL, CHIP 4.3K 5% 1/10W

SG-152P BOARD	(SG-152P	BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc A-7513-960-A o MOUNTED CIRCUIT BOARD, SG-152P 1pc 1-565-123-11 o HOUSING, 4P 1pc 1-565-164-11 o CONTACT, FEMALE AWG26-28 2pcs 1-568-613-11 o CONNECTOR, FEMAIL, 2P 2pcs 3-621-124-00 o SPACER	D11 D12 D13 D15 D16	8-719-400-18 s DIODE MA152WK 8-719-800-76 s DIODE 1SS226 8-719-910-65 s DIODE HZ6B2L 8-719-921-12 s DIODE HZ2BLL 8-719-109-81 s DIODE RD4.7ES-B2
1pc 3-724-753-01 o RING 5pcs 3-729-061-01 s SCREW (M2X4.5) (TYPE 1) 1pc 3-734-721-01 o PLATE (SG-152), ORNAMENTAL 1pc 7-688-001-12 s W 2, MIDDLE	D17 D18 D19 D20	8-719-800-76 s DIODE 1SS226 8-719-104-34 s DIODE 1S2836 8-719-800-76 s DIODE 1SS226 8-719-400-18 s DIODE MA152WK
C5 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V C7 1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V C8 1-135-162-21 s TANTAL 33uF 10% 6.3V C9 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V C10 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V		8-741-104-00 s IC BX-1040 8-759-101-12 s IC UPC31IG2 8-752-335-47 s IC CXD1216M 8-759-300-71 s IC MC14053BF 8-759-906-54 s IC TL064CNS
C11 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V C13 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V C14 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V C15 1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V C17 1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V	IC9 IC10	8-759-038-15 s IC MC74HC4538AF 8-752-332-67 s IC CXD1217M 8-759-200-79 s IC TC4049BF 8-759-204-93 s IC TC50H001F 8-759-209-57 s IC TC4S69F
C18 1-135-149-21 s TANTALUM, CHIP 2. 2uF 10% 10V C21 1-163-114-00 s CERAMIC, CHIP 75PF 5% 50V C24 1-135-149-21 s TANTALUM, CHIP 2. 2uF 10% 10V C28 1-163-809-11 s CERAMIC, CHIP 0. 047uF 10% 25V C29 1-135-091-00 s TANTALUM, CHIP 1uF 10% 16V	IC11 IC12 IC13 IC14 IC15	8-759-907-2! s IC CX-7969 8-759-009-04 s IC MC14050BF 8-759-906-54 s IC TL064CNS 8-759-632-07 s IC M5237L 8-759-300-71 s IC MC14053BF
C30 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V C31 1-162-638-11 s CERAMIC, CHIP 1uF 16V C33 1-163-251-11 s CERAMIC 100PF 5% 50V C34 1-163-251-11 s CERAMIC 100PF 5% 50V C36 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V	IC17 IC18 IC19 IC20 IC21	8-759-906-54 s IC TL064CNS 8-759-209-57 s IC TC4S69F 8-759-209-57 s IC TC4S69F 8-759-209-57 s IC TC4S69F 8-759-973-99 s IC CXD1361M
C38 1-135-149-21 s TANTALUM, CHIP 2. 2uF 10% 10V C40 1-135-091-00 s TANTALUM, CHIP 1uF 10% 16V C41 1-163-227-11 s CERAMIC 10PF 5% 50V C42 1-163-119-00 s CERAMIC, CHIP 120PF 5% 50V C43 1-163-251-11 s CERAMIC 100PF 5% 50V	L3	8-759-112-66 s IC UPC812G2 1-408-785-21 s CHIP 47uH 1-408-785-21 s CHIP 47uH 1-408-785-21 s CHIP 47uH 1-408-781-00 s CHIP 22uH
C44 1-135-149-21 \$ TANTALUM, CHIP 2. 2uF 10% 10V C46 1-135-149-21 \$ TANTALUM, CHIP 2. 2uF 10% 10V C48 1-135-076-21 \$ TANTALUM, CHIP 1uF 10% 35V C50 1-135-149-21 \$ TANTALUM, CHIP 2. 2uF 10% 10V C51 1-135-149-21 \$ TANTALUM, CHIP 2. 2uF 10% 10V C53 1-135-153-21 \$ TANTALUM 2. 2uF 10% 20V	L5 L6 L7 L8 L9 L10	1-408-781-00 s CHIP 22uH 1-408-785-21 s CHIP 47uH
C55 1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V C56 1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V C57 1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V C58 1-162-638-11 s CERAMIC, CHIP 1uF 16V	L11 .	1-408-780-21 s INDUCTOR CHIP 18uH 1-410-619-11 s INDUCTOR, VAR 220uH
C59	Q1 Q2 Q3 Q4 Q5	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623
CN1 1-566-960-11 o CONNECTOR, 50P, MALE D1 8-719-800-76 s DIODE 1SS226 D2 8-719-914-11 s DIODE HZ4ALL D3 8-719-800-76 s DIODE 1SS226 D4 8-719-800-76 s DIODE 1SS226 D5 8-719-800-76 s DIODE 1SS226	Q6 Q7 Q8 Q9 Q10	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-101-07 s TRANSISTOR 2SB798 8-729-807-50 s TRANSISTOR 2SD1623 8-729-101-07 s TRANSISTOR 2SB798 8-729-100-66 s TRANSISTOR 2SC1623
D6 8-719-800-76 s DIODE 1SS226 D9 8-719-951-12 s DIODE HZ5BLL D10 8-719-948-47 s DIODE HSM88AS	Q12 Q13	8-729-101-07 s TRANSISTOR 258798 8-729-216-22 s TRANSISTOR 25A1162 8-729-100-66 s TRANSISTOR 25C1623 8-729-100-66 s TRANSISTOR 25C1623

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(SG-152P BOARD)
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Ref. No.
                           SP Description
or Q'ty Part No.
Q20
            8-729-100-66 s TRANSISTOR 2SC1623
            8-729-216-22 s TRANSISTOR 2SA1162
021
            8-729-216-22 s TRANSISTOR 2SA1162
022
            1-216-066-00 s METAL, CHIP 5.1K 5\% 1/10\%
R14
            1-216-066-00 s METAL, CHIP 5.1K 5% 1/10W
R17
R22
            1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
           1-216-681-11 s METAL, CHIP 18K 0.5% 1/10W 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W
R58
R59
           1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
R61
R62
           1-216-688-11 s METAL, CHIP 36K 0.5% 1/10W
R63
           1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W
R64
            1-216-693-11 s METAL, CHIP 56K 0.5% 1/10W
R65
           1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-649-11 s METAL, CHIP 820 0.5% 1/10W
R79
R80
           1-216-126-11 s METAL CHIP 1.6M 5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
PQQ
R110
            1-216-697-11 s METAL, CHIP 82K 0.5% 1/10W
R137
           1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
R139
           1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W
R140
R141
R147
R151
           1-216-690-11 s METAL, CHIP 43K 0.5% 1/10W
R153
           1-216-104-00 s METAL, CHIP 200K 5% 1/10W
           1-228-474-00 s RES, ADJ, METAL 10K
           1-237-037-11 s RES, ADJ, METAL 20K
1-237-033-11 s RES, ADJ, METAL 1K
RV3
RV4
RV5
            1-228-472-00 s RES, ADJ, METAL 2K
RV6
           1-228-475-00 s RES, ADJ, METAL 20K
            1-228-475-00 s RES, ADJ, METAL 20K
RV7
           1-553-925-00 s SWITCH, DIGITAL
S2.
           1-570-857-11 s SWITCH, SLIDE
S3
X1
            1-567-654-21 s OSCILLATOR, CRYSTAL 17.734475MHz
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SG-157P BOARD

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Ref. No.
or Q'ty Part No.
                       SP Description
          A-7520-489-A O MOUNTED CIRCUIT BOARD, SG-157P
lpc
          1-135-156-21 s TANTAL 6.8uF 10% 6.3V
C76
          1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V
C77
          1-135-156-21 s TANTAL 6. 8uF 10% 6. 3V
C80
          1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V
C86
          1-565-151-11 o CONNECTOR, 4P, MALE
CN1
          1-568-622-11 o CONNECTOR, MAIL, 2P
CN2
          1-568-622-11 o CONNECTOR, MAIL, 2P
CN3
          8-759-100-94 s IC UPC358G2
IC22
          8-759-300-71 s IC MC14053BF
TC23
          8-759-902-88 s IC SN74LS123NS
IC24
          8-729-100-66 s TRANSISTOR 2SC1623
Q24
          1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R122
          1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R123
          1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
R124
          1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-674-11 s METAL, CHIP 9.1K 0.5% 1/10W
R125
R126
          1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W
R127
          1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W
R128
          1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
R129
R130
          1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
R131
          1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R132
R133
          1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R134
          1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W
R135
          1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
R136
RV8
          1-237-037-11 s RES, ADJ, METAL 20K
          1-553-510-00 s SWITCH, SLIDE
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SR-40 BOARD

Ref. No. or Q'ty	Part No. SP	Description	
	8-719-948-58 s 8-719-948-58 s 8-719-948-58 s	PHOTO SENSOR GP2S07B PHOTO SENSOR GP2S07B PHOTO SENSOR GP2S07B PHOTO SENSOR GP2S07B MOUNTED CIRCUIT BOARD,	SP-40
lpc		PRINTED CIRCUIT BOARD,	
Q1 Q2 Q3 Q4	8-729-100-67 s 8-729-100-67 s	TRANSISTOR 2SC1623-L7 TRANSISTOR 2SC1623-L7 TRANSISTOR 2SC1623-L7 TRANSISTOR 2SC1623-L7	

SV-97AP BOARD	(SV-97AP BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc A-6715-438-A o MOUNTED CIRCUIT BOARD, SV-97AP 1pc 3-724-715-01 o PLATE (SV-97), ORNAMENTAL 1pc 3-724-753-01 o RING	IC19 8-759-981-65 s IC LM2903M IC22 8-759-209-69 s IC TC4S11F
5pcs 3-729-061-01 s SCREW (M2X4.5) (TYPE 1) 1pc 7-688-001-12 s W 2, MIDDLE	L1 1-424-055-11 s COIL, CHOKE L2 1-424-055-11 s COIL, CHOKE L4 1-408-789-21 s CHIP 100uH
C2 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V C3 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V C4 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	L5 1-408-789-21 s CHIP 100uH L6 1-421-801-21 s COIL, CHOKE 60uH
C5	Q1 8-729-117-32 s TRANSISTOR 2SC4177 Q2 8-729-209-07 s TRANSISTOR 2SC4213-B Q3 8-729-209-01 s TRANSISTOR 2SB907
C20 1-163-075-00 s CERAMIC, CHIP 0.047uF 50V C21 1-163-251-11 s CERAMIC 100PF 5% 50V C23 1-163-075-00 s CERAMIC, CHIP 0.047uF 50V	Q4 8-729-117-16 s TRANSISTOR 2SA1611-M6 Q5 8-729-807-50 s TRANSISTOR 2SD1623
C26 1-163-075-00 s CERAMIC, CHIP 0.047uF 50V C27 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	Q7 8-729-117-16 s TRANSISTOR 2SA1611-M6 Q8 8-729-807-50 s TRANSISTOR 2SD1623
C28 1-163-075-00 s CERAMIC, CHIP 0.047uF 50V C29 1-163-075-00 s CERAMIC, CHIP 0.047uF 50V C71 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V	Q9 8-729-901-46 s TRANSISTOR DTA114YK Q10 8-729-905-18 s TRANSISTOR DTC144EU R1 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
C71	R2 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R3 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R4 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
C91 1-109-893-11 s ELECT 39uF 20% 50V C95 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V C97 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V	R5 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R6 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
C101 1-163-075-00 s CERAMIC, CHIP 0.047uF 50V C103 4-110-607-11 s ELECT 82uF 20% 35V	R7 1-216-825-11 s METAL, CHIP 2. 2K 5% 1/16W R8 1-216-829-11 s METAL, CHIP 4. 7K 5% 1/16W R9 1-216-857-11 s METAL, CHIP 1M 5% 1/16W
C105	R10 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R11 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
C131 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V C135 1-124-943-11 s ELECT 39 20% 25V	R12 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R13 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R14 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
C136 1-163-012-00 s CERAMIC, CHIP 0.0018uF 10% 50V CN1 1-566-960-11 o CONNECTOR, 50P, MALE	R15 1-216-853-11 s METAL, CHIP 470K 5% 1/16W R16 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R17 1-216-849-11 s METAL, CHIP 220K 5% 1/16W
CN2 1-566-397-21 o CONNECTOR, 14P, MALE D1 8-719-800-76 s DIODE 1SS226 D2 8-719-800-76 s DIODE 1SS226	R17 1-216-849-11 s METAL, CHIP 220K 5% 1/16W R21 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R22 1-216-851-11 s METAL, CHIP 330K 5% 1/16W R23 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
D3 8-719-800-76 s DIODE 1SS226 D4 8-719-800-76 s DIODE 1SS226 D5 8-719-123-85 s DIODE 1SS304	R24 1-216-825-11 s METAL, CHIP 2. 2K 5% 1/16W R29 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
D7 8-719-981-01 s DIODE ERA81-004 D8 8-719-981-01 s DIODE ERA81-004	R30 1-216-825-11 s METAL, CHIP 2. 2K 5% 1/16W R31 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R32 1-216-853-11 s METAL, CHIP 470K 5% 1/16W
IC1 8-752-814-54 s IC CXP80116-649Q IC2 8-759-100-96 s IC UPC4558G2	R33 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R34 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
IC3 8-759-981-65 s IC LM2903M IC4 8-759-100-96 s IC UPC455862 IC5 8-759-100-96 s IC UPC455862	R35 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R36 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R37 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
IC6 8-759-100-94 s IC UPC358G2 IC7 8-759-981-65 s IC LM2903M IC9 8-759-300-71 s IC MC14053BF	R38 1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W R39 1-216-841-11 s METAL, CHIP 4TK 5% 1/16W R40 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
IC10 8-759-009-11 s IC MC14070BF IC11 8-759-008-82 s IC MC14013BF	R43 1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-857-11 s METAL, CHIP 1M 5% 1/16W
IC12 8-759-009-51 s IC MC14538BF IC14 8-759-300-71 s IC MC14053BF IC15 8-759-981-65 s IC LM2903M	R45 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R46 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R48 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
IC16 8-759-100-94 s IC UPC358G2 IC17 8-759-981-65 s IC LM2903M	R50 1-216-864-11 s METAL, CHIP 0-0HM R51 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
IC18 8-759-100-94 s IC UPC358G2	R52 1-216-851-11 s METAL, CHIP 330K 5% 1/16W

(SV-97AP	BOARD)	·		(SV-97AP	BOARD)			
Ref. No. or Q'ty	Part No. SP Desc	cription		Ref. No. or Q'ty	Part No. S	P Descrip	tion	
R53 R54 R55 R56 R57	1-216-825-11 s MET 1-216-837-11 s MET 1-216-837-11 s MET 1-216-857-11 s MET 1-216-833-11 s MET	AL, CHIP 22K 5% 1 AL, CHIP 22K 5% 1 AL, CHIP 1M 5% 1/	/16W /16W 16W	R136 R137 R138	1-216-837-11 1-216-840-11 1-216-830-11 1-216-823-11 1-216-822-11	s METAL, s METAL, s METAL,	CHIP 39K 5% CHIP 5.6K 5 CHIP 1.5K 5	1/16W % 1/16W % 1/16W
R59 R60 R61	1-216-849-11 s MET/ 1-216-845-11 s MET/ 1-216-847-11 s MET/ 1-216-837-11 s MET/ 1-216-857-11 s MET/	AL, CHIP 100K 5% AL, CHIP 150K 5% AL, CHIP 22K 5% 1	1/16W 1/16W /16W	R141 R142 R143	1-216-843-11 1-216-836-11 1-216-825-11 1-216-832-11 1-216-825-11	s METAL, s METAL, s METAL,	CHIP 18K 5% CHIP 2.2K 5 CHIP 8.2K 5	1/16\ % 1/16\ % 1/16\
	1-216-829-11 s MET/ 1-216-686-11 s MET/ 1-216-667-11 s MET/ 1-216-649-11 s MET/ 1-216-846-11 s MET/	L, CHIP 30K 0.5% L, CHIP 4.7K 0.5 L, CHIP 820 0.5%	1/10W % 1/10W 1/10W	R146 R151 R152	1-216-839-11 1-216-845-11 1-216-845-11 1-216-864-11 1-216-845-11	s METAL, s METAL, s METAL,	CHIP 100K 5 CHIP 100K 5 CHIP 0-OHM	% 1/16\ % 1/16\
R70 R71	1-216-675-11 s MET/ 1-216-854-11 s MET/ 1-216-837-11 s MET/ 1-216-849-11 s MET/ 1-216-821-11 s MET/	L, CHIP 560K 5% L, CHIP 22K 5% 1 L, CHIP 220K 5%	1/16W /16W 1/16W 16W	R155 R156 R157	1-216-829-11 1-216-821-11 1-216-841-11 1-216-849-11 1-216-821-11	s METAL, s METAL, s METAL,	CHIP 1K 5% CHIP 47K 5% CHIP 220K 5	1/16\ 1/16\ % 1/16\
R75 R81 R82	1-216-833-11 s MET/ 1-216-830-11 s MET/ 1-216-849-11 s MET/ 1-216-835-11 s MET/ 1-216-821-11 s MET/	L, CHIP 5.6K 5% L, CHIP 220K 5% L, CHIP 15K 5% 1	/16W 1/16W 1/16W /16W	R160 R161 R162	1-216-849-11 1-216-821-11 1-216-849-11 1-216-821-11 1-216-849-11	s METAL, s METAL, s METAL,	CHIP 1K 5% CHIP 220K 5 CHIP 1K 5%	1/16\ % 1/16\ 1/16\
R85 R87 R88	1-216-821-11 s META 1-216-825-11 s META 1-216-849-11 s META 1-216-821-11 s META 1-216-841-11 s META	L, CHIP 2.2K 5% L, CHIP 22OK 5% L, CHIP 1K 5% 1/	1/16W 1/16W 16W	R165 R166 R167	1-216-821-11 1-216-849-11 1-216-821-11 1-216-849-11 1-216-821-11	s METAL, s METAL, s METAL,	CHIP 220K 5 CHIP 1K 5% CHIP 220K 5	% 1/16W 1/16W % 1/16W
R91 R92 R93	1-216-841-11 s META 1-216-853-11 s META 1-216-829-11 s META 1-216-830-11 s META 1-216-853-11 s META	L, CHIP 470K 5% L, CHIP 4.7K 5% L, CHIP 5.6K 5%	1/16W 1/16W 1/16W	R170 R171 R172	1-216-849-11 1-216-821-11 1-216-849-11 1-216-821-11 1-216-849-11	s METAL, s METAL, s METAL,	CHIP 1K 5% CHIP 220K 5 CHIP 1K 5%	1/16\ % 1/16\ 1/16\
R103 R104 R105	1-216-699-11 s META 1-216-699-11 s META 1-216-845-11 s META 1-216-837-11 s META 1-216-840-11 s META	L, CHIP 100K 0.5% L, CHIP 100K 5% L, CHIP 22K 5% 1	% 1/10\ 1/16\ /16\	R175 R176 R177	1-216-821-11 1-216-849-11 1-216-817-11 1-216-864-11 1-216-849-11	s METAL, s METAL, s METAL,	CHIP 220K 5 CHIP 470 5% CHIP 0-0HM	% 1/16W 1/16W
R108 R109 R110	1-216-830-11 s META 1-216-823-11 s META 1-216-822-11 s META 1-216-843-11 s META 1-216-836-11 s META	L, CHIP 1.5K 5% L, CHIP 1.2K 5% L, CHIP 68K 5% 1	1/16W 1/16W /16W	R181 R182 R183	1-216-841-11 1-216-841-11 1-216-841-11 1-216-841-11 1-216-841-11	s METAL, s METAL, s METAL,	CHIP 47K 5% CHIP 47K 5% CHIP 47K 5%	1/16\ 1/16\ 1/16\
R113 R114 R115	1-216-825-11 s META 1-216-832-11 s META 1-216-825-11 s META 1-216-839-11 s META 1-216-845-11 s META	L, CHIP 8.2K 5% L, CHIP 2.2K 5% L, CHIP 33K 5% 1	1/16W 1/16W /16W	R186 R187 R188	1-216-841-11 1-216-841-11 1-216-841-11 1-216-841-11 1-216-841-11	s METAL, s METAL, s METAL,	CHIP 47K 5% CHIP 47K 5% CHIP 47K 5%	1/16\ 1/16\ 1/16\
R122 R123 R124	1-216-853-11 s META 1-216-853-11 s META 1-216-854-11 s META 1-216-829-11 s META 1-216-841-11 s META	L, CHIP 470K 5% L, CHIP 560K 5% L, CHIP 4.7K 5%	1/16W 1/16W 1/16W	R191 R192 R193	1-216-821-11 1-216-821-11 1-216-821-11 1-216-821-11 1-216-821-11	s METAL, s METAL, s METAL,	CHIP 1K 5% CHIP 1K 5% CHIP 1K 5%	1/16W 1/16W 1/16W
R132 R133	1-216-841-11 s META 1-216-699-11 s META 1-216-699-11 s META 1-216-841-11 s META	L, CHIP 100K 0.59	% 1/10\ % 1/10\	 R196 R197	1-216-821-11 1-216-821-11 1-216-821-11 1-216-821-11	s METAL, s METAL,	CHIP 1K 5% CHIP 1K 5%	1/16\ 1/16\

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(SV-97AP BOARD)
                                                                            SW-291 BOARD
Ref. No.
                                                                            Ref. No.
or Q'ty Part No.
                       SP Description
                                                                                                  SP Description
                                                                            or Q'ty Part No.
          1-216-821-11 s METAL, CHIP 1K 5% 1/16W
1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W
                                                                                      1-625-555-11 o PRINTED CIRCUIT BOARD, SW-291
R199
                                                                            1pc
R301
          1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W
R302
                                                                                      1-506-481-11 o CONNECTOR, 2P, MALE
                                                                            CN1
RV1
          1-230-871-11 s RES, ADJ, METAL 22K
                                                                                      8-719-902-27 s LED EBR3402S, RED
                                                                            D1
          1-230-871-11 s RES, ADJ, METAL 22K
RV2
          1-230-875-21 s RES, ADJ, METAL 220K
1-230-875-21 s RES, ADJ, METAL 220K
RV3
                                                                            SWI
                                                                                      1-570-608-11 s SWITCH, TOGGLE
RV4
          1-230-875-21 s RES, ADJ, METAL 220K
RV6
          1-230-873-11 s RES, ADJ, METAL 47K
          1-230-875-21 s RES, ADJ, METAL 220K
RV7
          1-577-076-11 s CRYSTAL, 16.000MHz
X1
                                                                            SW-357 BOARD
                                                                            Ref. No.
                                                                            or Q'ty Part No.
                                                                                                  SP Description
                                                                                      1-629-570-11 o PRINTED CIRCUIT BOARD, SW-357
                                                                            1pc
SW-220 BOARD
                                                                                      1-506-484-11 o CONNECTOR, 5P, MALE
                                                                            CN1
                                                                                      1-506-482-11 o CONNECTOR, 3P, MALE
                                                                            CN2
Ref. No.
                                                                                      1-249-405-11 s CARBON 100 5% 1/4W
or Q'ty Part No.
                      SP Description
                                                                            R1
          A-7520-307-A o MOUNTED CIRCUIT BOARD, SW-220
                                                                                      1-554-395-00 s SWITCH, TOGGLE
          1-563-088-11 o CONTACT, FEMALE, AWG24-30
                                                                                      1-554-396-00 s SWITCH, TOGGLE
1pc
                                                                            S2
          1-563-869-11 o CONTACT, FEMALE, AWG26-30
                                                                                      1-570-282-21 s SWITCH, KEY BOARD
1pc
                                                                            S3
CN1
          1-562-150-11 s HOUSING, 5P
         1-506-475-11 o CONNECTOR, 10P, MALE
CN<sub>2</sub>
         1-562-743-11 o HOUSING, 10P
CN2
CN54
          1-563-876-11 o HOUSING, 16P
         8-719-820-58 s DIODE 1SS177
D1
                                                                            SW-562 BOARD (Serial No. 44001 and higher)
         8-719-820-58 s DIODE 1SS177
D2
                                                                            Ref. No.
         1-554-355-00 s SWITCH, TOGGLE
SI
                                                                            or Q'ty Part No.
                                                                                                SP Description
S2
          1-554-400-00 s SWITCH, TOGGLE
S3
         1-554-400-00 s SWITCH, TOGGLE
                                                                                     1-564-832-11 o CONTACT
                                                                            1pc
         1-554-356-00 s SWITCH, TOGGLE
                                                                                     1-580-579-11 o HOUSING, 6P
1-580-599-11 o CONTACT, FEMALE, AWG26-30
$4
                                                                            lpc
         1-553-856-00 s SWITCH, TACTILE
                                                                            5pcs
                                                                                      1-643-709-11 o PRINTED CIRCUIT BOARD, SW-562
                                                                            1pc
                                                                            CN2
                                                                                      1-565-149-11 o PIN, CONNECTOR (ANGLE) 2P
                                                                            D1
                                                                                      8-719-800-76 s DIODE 1SS123
SW-260A BOARD (Serial No. 41954 through 43999)
                                                                                      1-570-984-11 s SWITCH, TOGGLE
                                                                            S2
                                                                                      1-570-985-11 s SWITCH, TOGGLE
Ref. No.
                                                                                      1-570-985-11 s SWITCH, TOGGLE
                                                                            $3
or Q'ty Part No.
                      SP Description
         1-562-738-11 o HOUSING, 5P
1-563-869-11 o CONTACT, FEMALE, AWG26-30
1pc
lpc
1pc
         1-563-871-11 o HOUSING 6P
         1-625-088-13 o PRINTED CIRCUIT BOARD, SW-260A
CN2
         1-565-149-11 o PIN, CONNECTOR (ANGLE) 2P
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8-719-800-76 s DIODE 1SS226

1-570-984-11 s SWITCH, TOGGLE 1-570-985-11 s SWITCH, TOGGLE 1-570-985-11 s SWITCH, TOGGLE

DI

SY-117CP		(SY-117CP BOARD)
Ref. No. or Q'ty		Ref. No. or Q'ty Part No. SP Description
lpc lpc lpc 5pcs lpc	7-688-001-12 s \ 2. MIDDLE	R31 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R32 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R33 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R34 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R35 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
C4 C5 C6 C7 C8	1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-126-401-11 s ELECT, CHIP 1uF 20% 50V 1-126-398-11 s ELECT, CHIP 4.7uF 20% 35V 1-163-099-00 s CERANIC, CHIP 18PF 5% 50V 1-163-099-00 s CERANIC, CHIP 18PF 5% 50V	R40 1-216-821-11 S METAL, CHIP IN 3% 1/10#
C11 C12 C13 C14 C15	1-127-491-00 s ELECTSOLID 20 10V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-162-995-11 s CERANIC, CHIP 0.022uF 50V 1-162-995-11 s CERANIC, CHIP 0.022uF 50V 1-162-995-11 s CERANIC, CHIP 0.022uF 50V	R43 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R44 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R45 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R46 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R47 1-216-849-11 s METAL, CHIP 220K 5% 1/16W
C16 C17 C18	1-162-995-11 s CERAMIC, CHIP 0.022uF 50V 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V 1-162-995-11 s CERAMIC, CHIP 0.022uF 50V 1-566-960-11 o CONNECTOR, 50P, MALE	R48 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R49 1-216-849-11 s METAL, CHIP 220K 5% 1/16W R50 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R51 1-218-303-11 s METAL, CHIP 10K 1% 1/16W R52 1-218-306-11 s METAL CHIP 100K 1% 1/16W
CN2 D1	1-566-388-11 s CONNECTOR, 8P, MALE 8-719-123-85 s DIODE 1SS304	R53 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R54 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
IC1 IC3 IC4	8-752-815-64 s IC CXP80116-668Q 8-759-009-51 s IC MC14538BF	R55 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R56 1-216-813-11 s METAL, CHIP 220 5% 1/16W R57 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
IC5 IC6 IC7	8-759-940-45 s IC S-8054HN-CB 8-759-925-80 s IC SN74HC14NS 8-759-927-29 s IC SN74HCU04ANS 8-759-927-46 s IC SN74HC00ANS	R61 1-216-682-11 s METAL, CHIP ZUK U. 5% 1/10%
Q1 Q2 Q3 Q4 Q5	8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-12 s TRANSISTOR DTA144EU 8-729-907-00 s TRANSISTOR DTC114EU 8-729-907-00 s TRANSISTOR DTC114EU 8-729-907-00 s TRANSISTOR DTC114EU	R62 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W R63 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R64 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R65 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R66 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
Q6 Q7 Q8 Q9	8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-18 s TRANSISTOR DTC144EU 8-729-117-32 s TRANSISTOR 2SC4177 8-729-907-00 s TRANSISTOR DTC114EU	R68 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R69 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R70 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R71 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R1 R2 R3 R4 R5	1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R72 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R73 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R74 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R75 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R76 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R6 R7 R8 R9 R10	1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W	R77 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R78 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R79 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R80 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R81 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R11 R12 R13 R14 R15	1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W	R82 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R83 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R84 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R85 1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R16 R17 R18 R29 R30	1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-864-11 s METAL, CHIP 0-0HM 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W	R86 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R88 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R90 1-216-813-11 s METAL, CHIP 220 5% 1/16W R91 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R91 1-216-841-11 s METAL, CHIP 47K 5% 1/16W

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(SY-117CP BOARD)
Ref. No.
or Q'ty Part No.
                              SP Description
             1-216-813-11 s METAL, CHIP 220 5% 1/16W
1-216-813-11 s METAL, CHIP 220 5% 1/16W
1-216-845-11 s METAL, CHIP 100K 5% 1/16W
R92
R93
R94
             1-216-821-11 s NETAL, CHIP 1K 5% 1/16W
R95
R96
             1-216-845-11 s METAL, CHIP 100K 5% 1/16W
             1-216-841-11 s METAL, CHIP 47K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R97
R98
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R100
R102
             1-216-819-11 s METAL, CHIP 680 5% 1/16W
R103
            1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-849-11 s METAL, CHIP 220K 5% 1/16W
R104
R105
R106
R107
R201
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
R203
R205
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
R207
R211
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
R213
R215
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
R217
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
1-216-849-11 s METAL, CHIP 220K 5% 1/16W
1-216-849-11 s METAL, CHIP 220K 5% 1/16W
R219
R221
R223
             1-216-849-11 s NETAL, CHIP 220K 5% 1/16W
R225
             1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R226
R227
             1-216-849-11 s METAL, CHIP 220K 5% 1/16W
             1-570-374-12 s SWITCH, SLIDE
S1
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1-567-962-11 s CRYSTAL 8MHz

X1

	
Ref. No. or Q'ty	Part No. SP Description
lpc lpc	A-6725-604-A o MOUNTED CIRCUIT BOARD, TB-5 3-729-013-41 s SCREW(M1.4X3.5), WASHERHEAD(+P)
C5 C11	1-163-011-11 s CERAMIC, CHIP 0.0015uF 10% 50V 1-135-157-21 s TANTAL 10uF 10% 6.3V 1-163-263-11 s CERAMIC 330PF 5% 50V 1-163-011-11 s CERAMIC, CHIP 0.0015uF 10% 50V 1-135-157-21 s TANTAL 10uF 10% 6.3V
C28 C31 C32	1-163-139-00 s CERAMIC, CHIP 820PF 5% 50V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
C46 C51	1-126-394-11 s ELECT, CHIP 10uF 20% 16V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
CNI CN2 CN3 CN5 CN6	1-506-730-11 o CONNECTOR, 40P, MALE 1-566-526-11 s CONNECTOR, 10P 1-565-339-11 s CONNECTOR, 10P, FEMALE 1-566-521-11 s CONNECTOR, 5P 1-506-471-11 o CONNECTOR, 6P, MALE
CN7	1-565-340-11 s CONNECTOR, 6P, FEMALE
D21 D51	8-719-123-85 s DIODE 1SS304 8-719-106-88 s DIODE RD15N-B1
FB1 FB2	1-543-309-21 s BEAD, FERRITE 1-543-309-21 s BEAD, FERRITE
IC2	8-759-111-56 s IC UPC4572G2 8-759-906-53 s IC TL062CPS 8-759-209-15 s IC TC4SU69F 8-759-300-71 s IC MC14053BF 8-759-111-56 s IC UPC4572G2
Q22 Q23 Q51	8-729-209-07 s TRANSISTOR 2SC4213-B 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-16 s TRANSISTOR 2SA1611-M6 8-729-106-68 s TRANSISTOR 2SC1615A-GP 8-729-109-44 s TRANSISTOR 2SK94
RVZ.	1-228-475-00 s RES, ADJ, NETAL 20K 1-228-475-00 s RES, ADJ, NETAL 20K 1-228-475-00 s RES, ADJ, NETAL 20K 1-228-475-00 s RES, ADJ, NETAL 20K

TB-5 BOARD

	48BP BOARD		(TC-48AP	/48BP BOARD)	
Ref. No. or Q'ty	Part No. SP Description		Ref. No. or Q'ty	Part No. SP	Description
_	A-6713-372-A O MOUNTED CIRCUIT BOARD, TC-48AP Serial No. UP TO 42095		C537 C547		TANTALUM, CHIP 0.33uF 10% 35V TANTAL CHIP 4.7uF 10% 16V
lpc	A-8271-734-A o MOUNTED CIRCUIT BOARD, TC-48BP Serial No. 42096 and higher		C556 C557	1-135-155-21 s 1-135-155-21 s	TANTAL CHIP 4.7uF 10% 16V TANTAL CHIP 4.7uF 10% 16V
lpc	3-701-748-00 o CLAMP		C558	1-135-091-00 s	TANTALUN, CHIP 1uF 10% 16V
BT1 C1	1-528-292-11 O BATTERY, SUPER LITHIUM		C559 C560	1-135-155-21 s	TANTAL CHIP 4.7uF 10% 16V TANTAL CHIP 4.7uF 10% 16V ELECT, CHIP 100uF 20% 6.3V
C3 C4 C6	1-163-037-11 s CERANIC, CHIP 0.022uF 10% 25V 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-126-412-11 s ELECT 220uF 20% 4V	•		1-124-471-00 s 1-127-485-00 s	ELECT 1000uF 20% 6.3V ELECT (SOLID) 33uF 20% 6.3V
C7	1-126-402-11 s ELECT, CHIP 2. 2uF 20% 50V		CN2	1-566-536-11 s	CONNECTOR, FPC (ZIF) 12P CONNECTOR, 20P
C8 C9 C10 C103	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-163-037-11 s CERANIC, CHIP 0.022uF 10% 25V 1-126-403-11 s ELECT 3.3uF 20% 50V		CN3 CN10 CN11	1-506-485-11 o	CONNECTOR, 20P CONNECTOR, 6P, MALE CONNECTOR, 2P, MALE
C104	1-126-405-11 s ELECT 10uF 20% 50V 1-126-405-11 s ELECT 10uF 20% 50V 1-163-227-11 s CERANIC 10PF 5% 50V 1-163-227-11 s CERANIC 10PF 5% 50V		D101 D102	8-719-800-76 s 8-719-800-76 s	
C105	1-126-405-11 s ELECT 10uF 20% 50V		D103	8-719-941-23 s	DIODE DA204U
C106 C107 C108	1-163-227-11 s CERANIC 10PF 5% 50V 1-163-227-11 s CERANIC 10PF 5% 50V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V		D104 D201	8-719-123-85 s 8-719-800-76 s	
C109	1-135-155-21 s TANTAL CHIP 4. 7uF 10% 16V			8-719-800-76 s	DIODE 1SS226 DIODE DA204U
C111	1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V 1-135-157-21 s TANTAL 10uF 10% 6.3V		D203 D301	8-719-941-23 s	
	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V		D401 D508	8-719-941-23 s 8-719-938-72 s	DIODE DA204U DIODE SB01-05CP
	1-135-157-21 s TANTAL 10uF 10% 6.3V 1-126-403-11 s ELECT 3.3uF 20% 50V		D511	8-719-941-86 s	
C204	1-126-405-II s ELECT 10uF 20% 50V		D514 D515	8-719-941-86 s 8-719-941-86 s	
C205 C206	1-126-405-11 s ELECT 10uF 20% 50V 1-163-227-11 s CERAMIC 10PF 5% 50V		D522 D523		LED EBR3402S, RED
	A A CO COM A A CONTRACT A CONTRAC				DIODE SB01-05CP
	1-163-227-11 s CEKAMIC 10PF 5% 50V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V 1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V 1-135-157-21 s TANTAL 10uF 10% 6.3V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-161-21 s TANTALUM, CHIP 27uF 10% 10V		D525	8-719-938-72 s	DIODE SB01-05CP
C209 C211	1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V		D526 D527	8-719-123-85 s 8-719-123-85 s	
C212	1-135-157-21 s TANTAL 10uF 10% 6.3V		D528	8-719-123-85 s	
C213 C214	1-135-166-21 s TANTALUM, CHIP 47UF 10% 10V 1-135-161-21 s TANTALUM, CHIP 22UF 10% 10V		D529	8-719-123-85 s	
C215	1-135-157-21 s TANTAL 10uF 10% 6.3V		D530		DIODE SB01-05CP
C303	1-163-251-11 s CERAMIC 100PF 5% 50V 1-135-180-21 s TANTAL 3, 3uF 20% 6, 3V		IC1 IC1	8-759-700-50 s 8-759-942-44 s	IC NJM386M
C304 C305	1-135-160-21 S TANTALUN, CHIP 1uF 10% 16V		IC101 ·	8-759-981-54 s	
C307	1-135-180-21 s TANTAL 3. 3uF 20% 6. 3V		IC102 IC103	8-759-981-54 s 8-759-908-16 s	
C403 C404	1-163-251-11 s CERAMIC 100PF 5% 50V 1-135-180-21 s TANTAL 3.3uF 20% 6.3V		IC201	8-759-981-54 s	IC RC2041MD
C405	1-135-091-00 s TANTALUN, CHIP luF 10% 16V		IC202	8-759-981-54 s	IC RC2041MD
C407 C517	1-135-180-21 s TANTAL 3.3uF 20% 6.3V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V		IC203 IC301	8-759-908-16 s 8-759-300-71 s	
C518	1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V		IC302	8-759-906-53 s	IC TL062CPS
C519	1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V		IC303	8-759-908-16 s	
C520 C522	1-125-447-11 s DOUBLE LAYERS 1FARAD 5.5V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V		IC401 IC403	8-759-300-71 s 8-759-908-16 s	
C523	1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V		IC501 IC502	8-759-944-79 s	
C524 C525	1-163-235-11 s CERAMIC 22PF 5% 50V - 1-163-235-11 s CERAMIC 22PF 5% 50V		IC503	8-75 <u>2</u> -810-17 s	IC CXP80116-617Q
C528	1-163-095-00 s CERANIC, CHIP 12PF 5% 50V 1-163-245-11 s CERANIC 56PF 5% 50V		IC504	8-759-112-06 s	IC UPC78N05H
C529 C530	1-163-245-11 S CERAMIC 56FF 5% 50V 1-163-095-00 S CERAMIC, CHIP 12PF 5% 50V		IC505 IC506	8-759-511-37 s 8-759-008-82 s	
C531	1-163-095-00 s CERANIC, CHIP 12PF 5% 50V		IC507	8-759-009-12 s	
C532	1-135-073-00 s TANTALUM, CHIP 0.33uF 10% 35V		IC508	8-759-300-71 s	IC MC14053BF

Ref. No.		Ref. No.	D. 4 N. OD Doors's Albert
	Part No. SP Description	or Q' ty	-
IC509 IC510 IC511	8-759-009-02 s IC MC14046BF 8-759-008-36 s IC MC74HC4049F 8-759-009-10 s IC MC14069UBF	R110 R111 R112	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W
IC512 IC513	9-750-009-92 c TC MC1/013RF	D112	1-216-638-11 s METAL, CHIP 300 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
IC514	8-759-209-15 s IC TC4SU69F	R115	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
IC515 IC516	8-752-330-59 s IC CXK1011P 1-808-502-11 s LCD MODULE LT4115	R116 R117	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
IC517 IC518	8-759-009-12 s IC MC14071BF 8-759-939-41 s IC S-81230AG-RB	R118 R119	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
IC519 IC520	8-759-209-15 s IC TC4SU69F 8-759-209-97 s IC TC4S8IF	R120 R121	1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W
IC521 IC522	8-759-209-54 s IC TC4S0IF 8-759-209-15 s IC TC4SU69F	R123 R125	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
IC523	8-759-209-90 s IC TC4S71F	R126	1-216-681-11 s METAL, CHIP 18K 0.5% 1/10W
IC701 IC702	8-759-981-69 s IC LM2904M 8-759-908-16 s IC TL072CPS	R128 R129	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W
IC703	8-759-939-41 s IC S-81230AG-RB	R130 R131	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
L1 L101	1-410-729-21 s INDUCTOR, CHIP 1mH 1-408-776-00 s INDUCTOR CHIP 8.2uH	R132	1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W
L102 L201	1-408-776-00 s INDUCTOR CHIP 8. 2uH 1-408-776-00 s INDUCTOR CHIP 8. 2uH	R133 R135	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
L202	1-408-776-00 s INDUCTOR CHIP 8. 2uH	R136 R137	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
PH1	1-408-776-00 s INDUCTOR CHIP 8. 2uH 1-808-252-11 s PHOTOCOUPLER N-30 8-729-271-31 s TRANSISTOR 2SC2713G 8-729-117-32 s TRANSISTOR 2SC4177 8-729-905-18 s TRANSISTOR DTC144EU 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177	R138	1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
Q101 Q102	8-729-271-31 s TRANSISTOR 2SC2713G 8-729-117-32 s TRANSISTOR 2SC4177	R139 R140	1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
Q103 Q104	8-729-905-18 s TRANSISTOR DTC144EU 8-729-117-32 s TRANSISTOR 2SC4177	R141 R143	1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
Q105	8-729-117-32 s TRANSISTOR 2SC4177	R201	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
Q106 Q107	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-271-31 s TRANSISTOR 2SC2713G	R202 R203	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
Q201 Q202 Q203	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-271-31 s TRANSISTOR 2SC2713G 8-729-117-32 s TRANSISTOR 2SC4177 8-729-905-18 s TRANSISTOR DTC144EU	R205	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
Q204	8-729-117-32 s TRANSISTOR 2SC4177	R207	1-216-631-11 s METAL, CHIP 150 0.5% 1/10W
Q205 Q206	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177	R208 R210	1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
Q207 Q501	8-729-117-32 s TRANSISTOR 2SC4177 8-729-905-18 s TRANSISTOR DTC144EU	R211 R212	1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W
Q502	8-729-905-18 s TRANSISTOR DTC144EU	R213	1-216-638-11 s METAL, CHIP 300 0.5% 1/10W
Q503 Q504	8-729-907-00 s TRANSISTOR DTC114EU 8-729-905-18 s TRANSISTOR DTC144EU	R214 R215	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
Q509 Q510	8-729-905-18 s TRANSISTOR DTC144EU 8-729-106-68 s TRANSISTOR 2SC1615A-GP	R216 R217	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
Q511	8-729-117-16 S TRANSISTOR 2SA1611-M6	R218	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
Q512 Q701	8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-18 s TRANSISTOR DTC144EU 8-729-117-32 s TRANSISTOR 2SC4177	R220	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W
Q702 R1	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W	R221 R223	1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R3 R101	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W	R225 R226	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-681-11 s METAL, CHIP 18K 0.5% 1/10W
R102 R103	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W	R228 R229	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W
R104	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W	R230	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R105 R106	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W	R231 R232	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W
R107 R108	1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W	R233 R235	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W

Ref. No. or Q'ty	Part No. SP Description
R236 R237 R238 R239 R240	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
R241 R243 R303 R306 R310	1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R313 R403 R406 R410 R413	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R505 R506 R507 R515 R521	1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R523 R542 R543 R605 R611	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-249-397-11 s CARBON 22 5% 1/4W
R612 R617 R618 R619 R623	1-249-397-11 s CARBON 22 5% 1/4W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R626 R629 R630 R631 R632	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R639 R641 R642 R644 R653	1-249-397-11 s CARBON 22 5% 1/4W 1-249-393-11 s CARBON 10 5% 1/4W 1-249-393-11 s CARBON 10 5% 1/4W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-247-895-00 s CARBON 470K 5% 1/4W
R701 R703 R708 R709 R711	1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W
R712 R719	1-216-681-11 s METAL, CHIP 18K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
RV101 RV201 RV301 RV302 RV401	1-230-337-11 s RES, VAR, CARBON 10K 1-230-337-11 s RES, VAR, CARBON 10K 1-230-871-11 s RES, ADJ, METAL 22K 1-230-871-11 s RES, ADJ, METAL 22K 1-230-871-11 s RES, ADJ, METAL 22K
RV402 RV701 RV702	1-230-871-11 s RES, ADJ, METAL 22K 1-230-874-11 s RES, ADJ, METAL 100K 1-230-869-11 s RES, ADJ, METAL 4.7K
S101 S102 S103	1-571-087-11 s SWITCH, SLIDE 1-570-848-11 s SWITCH, SLIDE 1-571-275-11 s SWITCH, SLIDE

Ref. No. or Q'ty	Part No. SP Description
S202	1-571-087-11 s SWITCH, SLIDE 1-570-848-11 s SWITCH, SLIDE 1-571-275-11 s SWITCH, SLIDE
S501	1-570-834-11 s SWITCH, SLIDE 1-570-834-11 s SWITCH, SLIDE
S504 S505 S506	1-570-472-11 s SWITCH, KEY BOARD 1-570-472-11 s SWITCH, KEY BOARD 1-570-472-11 s SWITCH, KEY BOARD 1-570-472-11 s SWITCH, KEY BOARD 1-570-834-11 s SWITCH, SLIDE
S510 S511	1-570-866-11 s SWITCH, SLIDE 1-570-860-11 s SWITCH, SLIDE 1-571-275-11 s SWITCH, SLIDE 1-570-472-11 s SWITCH, KEY BOARD 1-570-860-11 s SWITCH, SLIDE
S516 S517 S518	1-571-273-11 s SWITCH, DIGITAL 1-571-273-11 s SWITCH, DIGITAL 1-571-275-11 s SWITCH, SLIDE 1-571-275-11 s SWITCH, SLIDE 1-570-855-11 s SWITCH, SLIDE
X502 X503	1-567-867-11 s CRYSTAL, 14.500MHz 1-567-812-11 s RESONATOR, CERAMIC 12.288MHz 1-578-741-11 s VIBRATOR, CRYSTAL 31.25KHz 1-577-076-11 s CRYSTAL, 16.000MHz

VA-83 BC	MARD (Serial No. 41954 through 43999)	(VA-83 B	OARD)
Ref. No.		Ref. No. or Q'ty	Part No. SP Description
1pc 2pcs 1pc 3pcs 1pc	A-7513-945-A o MOUNTED CIRCUIT BOARD, VA-83 1-568-613-11 o CONNECTOR, FEMAIL, 2P 3-172-056-01 o PARTITION 3-621-124-00 o SPACER 3-724-711-02 o PLATE (VA-62), ORNAMENTAL	D5 D6 D7 D9 D10	8-719-800-76 s DIODE 1SS226 8-719-948-47 s DIODE HSM88AS 8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226 8-719-948-47 s DIODE HSM88AS
1pc 5pcs 2pcs 1pc	3-724-753-01 o RING 3-729-061-01 s SCREW (M2X4.5) (TYPE 1) 7-623-952-21 s WASHER 2.0, FIBER 7-688-001-12 s W 2, MIDDLE	D13 D14 D15 D16	8-719-104-34 s DIODE 1S2836 8-719-948-47 s DIODE HSM88AS 8-719-948-47 s DIODE HSM88AS 8-719-948-47 s DIODE HSM88AS
C1 C2 C3 C12 C13	1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V 1-135-092-21 s TANTALUM, CHIP 3. 3uF 10% 16V	FL1 FL2 FL3	1-409-427-11 s FILTER, TRAP 14.3MHz 1-409-427-11 s FILTER, TRAP 14.3MHz 1-409-427-11 s FILTER, TRAP 14.3MHz 8-759-988-42 s IC AD707JR
C14 C16 C20 C21 C22	1-135-092-21 s TANTALUM, CHIP 3.3uF 10% 16V 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V 1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V 1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V	IC2 IC3 IC4 IC5	1-807-415-11 s IC BH-1210 1-808-806-11 s IC BH-1262 8-759-906-54 s IC TL064CNS 8-759-988-42 s IC AD707JR 1-807-415-11 s IC BH-1210
C23 C24 C25 C26 C35	1-163-235-11 s CERAMIC 22PF 5% 50V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V	IC7 IC8 IC9 IC10	1-808-806-11 s IC BH-1262 8-759-988-42 s IC AD707JR 1-807-415-11 s IC BH-1210 1-808-806-11 s IC BH-1262 8-759-239-34 s IC TC74HC4538AF
C36 C37 C39 C44 C45	1-135-092-21 s TANTALUM, CHIP 3.3uF 10% 16V 1-135-092-21 s TANTALUM, CHIP 3.3uF 10% 16V 1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V 1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V 1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V	IC12 IC13 IC14 IC15	8-759-300-71 s IC MC14053BF 8-759-906-53 s IC TL062CPS 8-759-205-78 s IC TC504013BF 1-808-253-13 s IC BH-1252 8-729-122-63 s TRANSISTOR 2SA1226
C46 C47 C48 C49 C50	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	Q2 Q3 Q4 Q5	8-729-122-63 s TRANSISTOR 2SA1226 8-729-216-22 s TRANSISTOR 2SA1162 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94
C59 C60 C61 C68 C69	1-126-320-11 s ELECT, NONPOLAR 10uF 20% 16V 1-135-092-21 s TANTALUM, CHIP 3.3uF 10% 16V 1-135-092-21 s TANTALUM, CHIP 3.3uF 10% 16V 1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V 1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V	Q8 Q9 Q10	8-729-109-44 s TRANSISTOR 25K94 8-729-109-44 s TRANSISTOR 25K94 8-729-109-44 s TRANSISTOR 25K94 8-729-109-44 s TRANSISTOR 25K94 8-729-175-72 s TRANSISTOR 25C2757-T33
C70 C71 C79 C80 C82	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	Q12 Q13 Q14 Q15	8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226 8-729-216-22 s TRANSISTOR 2SA1162 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94
C83 C84 C86 C88 C89	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-163-088-00 s CERAMIC, CHIP 5PF 50V 1-163-263-11 s CERAMIC 330PF 5% 50V 1-163-227-11 s CERAMIC 10PF 5% 50V	Q17 Q18 Q19 Q20	8-729-109-44 S TRANSISTOR 2SK94 8-729-109-44 S TRANSISTOR 2SK94 8-729-109-44 S TRANSISTOR 2SK94 8-729-109-44 S TRANSISTOR 2SK94
C92 C93	1-162-901-11 s CERAMIC 0.1uF 10% 50V 1-162-901-11 s CERAMIC 0.1uF 10% 50V	Q22 Q23 Q24 Q25	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-122-63 s TRANSISTOR 2SA1226 8-729-122-63 s TRANSISTOR 2SA1226 8-729-216-22 s TRANSISTOR 2SA1162
CV1 CV2 CV3	1-566-960-11 o CONNECTOR, 50P, MALE 1-141-370-11 s CAP, CHIP TRIMMER 1-141-370-11 s CAP, CHIP TRIMMER 1-141-370-11 s CAP, CHIP TRIMMER	Q26 Q27 Q28 Q29	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94
D2 D3	8-719-800-76 s DIODE 1SS226 8-719-948-47 s DIODE HSM88AS	Q30 Q31	8-729-109-44 s TRANSISTOR 25K94 8-729-109-44 s TRANSISTOR 25K94

Ref. No. or Q'ty	Part No. SP Description
Q32 Q33 Q34 Q35 Q36	8-729-109-44 s TRANSISTOR 2SK94 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623
Q44 Q45	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-100-66 s TRANSISTOR 2SC1623
R1 R4 R6 R16 R17	1-216-649-11 s METAL, CHIP 820 0.5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W
R18 R19 R22 R24 R34	1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W
R39 R44 R45 R48 R49	1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-649-11 s METAL, CHIP 820 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-090-00 s METAL CHIP 51K 5% 1/10W
R50 R60 R61 R62 R63	1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W
R66 R68 R78 R85 R90	1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R91 R94 R96 R106 R107	1-216-649-11 s METAL, CHIP 820 0.5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W
R108 R109 R112 R114 R126	1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W
R131 R136 R146 R173 R174	1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-603-11 s METAL, CHIP 10 0.5% 1/10W 1-216-603-11 s METAL, CHIP 10 0.5% 1/10W
R175 R178 R181 R182 R183	1-216-603-11 s METAL, CHIP 10 0.5% 1/10W 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
RV1 RV2 RV3 RV4 RV5	1-228-472-00 s RES, ADJ, METAL 2K 1-237-037-11 s RES, ADJ, METAL 20K 1-237-036-11 s RES, ADJ, METAL 10K 1-228-475-00 s RES, ADJ, METAL 20K 1-228-472-00 s RES, ADJ, METAL 2K
RV6	1-237-037-11 s RES, ADJ, METAL 20K

Ref. No. or Q'ty	Part No. SP	Description
RV7 RV8 RV9 RV10 RV11	1-237-036-11 s 1-228-475-00 s 1-228-472-00 s 1-237-037-11 s 1-237-036-11 s	RES, ADJ, METAL 10K RES, ADJ, METAL 20K RES, ADJ, METAL 2K RES, ADJ, METAL 20K RES, ADJ, METAL 10K
RV12 RV14 RV15 RV16 RV17	1-228-475-00 s 1-237-042-11 s 1-237-034-11 s 1-237-034-11 s 1-237-034-11 s	RES, ADJ, METAL 20K RES, ADJ, METAL 1M RES, ADJ, METAL 2K RES, ADJ, METAL 2K RES, ADJ, METAL 2K
RV18 RV19 RV20 RV21 RV22	1-237-036-11 s 1-237-036-11 s 1-237-036-11 s 1-237-037-11 s 1-237-037-11 s	RES, ADJ, METAL 10K RES, ADJ, METAL 10K RES, ADJ, METAL 10K RES, ADJ, METAL 20K RES, ADJ, METAL 20K
S1	1-570-857-11 s	SWITCH, SLIDE

VA-168 BOARD (Serial No. 44001 and higher)	(VA-168	BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
lpc A-8274-901-A o MOUNTED CIRCUIT BOARD, VA-168 2pcs 1-568-613-11 o CONNECTOR, FEMAIL, 2P 1pc 3-172-056-02 o PARTITION 8pcs 3-621-124-00 o SPACER 1pc 3-724-711-02 o PLATE (VA-62), ORNAMENTAL	C83 C84 C85 C86 C89	1-135-159-21 s TANTALUM, CHIP 10uF 20% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 20% 20V 1-163-263-11 s CERAMIC 330PF 5% 50V 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V 1-162-915-11 s CERAMIC 10PF 0.5% 50V
lpc 3-724-753-01 o RING 5pcs 3-729-061-01 s SCREW (M2X4.5)(TYPE 1) 2pcs 7-623-952-21 s WASHER 2.0, FIBER 1pc 7-688-001-12 s W 2, MIDDLE	C90 C91 C92	1-164-469-11 s CERAMIC 510PF 5% 50V 1-163-130-00 s CERAMIC 360PF 5% 50V 1-163-134-00 s CERAMIC 510PF 5% 50V
C1 1-135-210-11 s TANTALUM, CHIP 47uF 20% 10V C2 1-135-159-21 s TANTALUM, CHIP 10uF 20% 20V C3 1-135-159-21 s TANTALUM, CHIP 10uF 20% 20V C4 1-164-232-11 s CERAMIC 0.01uF 10% 50V C6 1-164-232-11 s CERAMIC 0.01uF 10% 50V	CV1 CV2 CV3	1-566-960-11 o CONNECTOR, 50P, MALE 1-141-448-21 s CAP, CHIP TRIMMER 1-141-370-11 s CAP, CHIP TRIMMER
C12		8-719-800-76 s DIODE 1SS123 8-719-800-76 s DIODE 1SS123 8-719-948-47 s DIODE HSM88AS 8-719-800-76 s DIODE 1SS123 8-719-948-47 s DIODE HSM88AS
C19	D14 D15	8-719-800-76 s DIODE 1SS123 8-719-800-76 s DIODE 1SS123 8-719-948-47 s DIODE HSM88AS 8-719-948-47 s DIODE HSM88AS 8-719-948-47 s DIODE HSM88AS
C24 1-135-210-11 s TANTALUM, CHIP 4.7uF 20% 10V C25 1-135-159-21 s TANTALUM, CHIP 10uF 20% 20V C26 1-135-159-21 s TANTALUM, CHIP 10uF 20% 20V C27 1-164-232-11 s CERAMIC 0.01uF 10% 50V C29 1-164-232-11 s CERAMIC 0.01uF 10% 50V	FL2	8-719-948-47 s DIODE HSM88AS 1-415-745-11 s DELAY LINE 1-409-427-11 s FILTER, TRAP 14.3MHz 1-409-427-11 s FILTER, TRAP 14.3MHz
C35	IC3 IC4	1-409-427-11 s FILTER, TRAP 14.3MHz 8-759-988-42 s IC AD707JR 1-807-415-11 s IC BH-1210 1-808-806-11 s IC BH-1262 8-759-906-54 s IC TL064CNS 8-759-988-42 s IC AD707JR
C40	IC6 IC7 IC8 IC9	1-807-415-11 s IC BH-1210 1-808-806-11 s IC BH-1262 8-759-988-42 s IC AD707JR 1-807-415-11 s IC BH-1210 1-808-806-11 s IC BH-1262
C48 1-135-210-11 s TANTALUM, CHIP 4.7uF 20% 10V C49 1-135-159-21 s TANTALUM, CHIP 10uF 20% 20V C50 1-135-159-21 s TANTALUM, CHIP 10uF 20% 20V C51 1-164-232-11 s CERAMIC 0.01uF 10% 50V C53 1-164-232-11 s CERAMIC 0.01uF 10% 50V	IC15 IC16	8-759-239-34 s IC TC74HC4538AF 8-759-300-71 s IC MC14053BF 1-809-026-11 s IC BH-1263 8-759-209-57 s IC TC4S69F 8-759-058-62 s IC TC7S08FU
C59	Q2 Q3 Q4	8-729-403-32 s TRANSISTOR XN6534 8-729-403-29 s TRANSISTOR XN6435 8-729-403-29 s TRANSISTOR XN6435 8-729-403-29 s TRANSISTOR XN6435 8-729-109-44 s TRANSISTOR 2SK94
C68 1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V C69 1-135-177-21 s TANTALUM, CHIP 1uF 20% 25V C70 1-135-166-21 s TANTALUM, CHIP 47uF 20% 10V C71 1-163-235-11 s CERAMIC 22PF 5% 50V C74 1-164-156-11 s CERAMIC 0.1uF 25V	Q6 Q7 Q8 Q9	8-729-109-44 s TRANSISTOR 2SK94
C79	Q11 ·	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-122-02 s TRANSISTOR 2SA1226

Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No.	SP Description
Q13 Q14 Q15 Q16 Q17	8-729-403-29 s TRANSISTOR XN6435 8-729-403-29 s TRANSISTOR XN6435 8-729-403-29 s TRANSISTOR XN6435 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94		1-218-855-11 1-218-704-11 1-208-801-11	S METAL, CHIP 1.5K 0.5% 1/16W S METAL, CHIP 1.5K 0.5% 1/16W S METAL, CHIP 3.3K 0.5% 1/16W S METAL, CHIP 6.2K 0.5% 1/10W S METAL, CHIP 100 0.5% 1/10W
Q18 Q19 Q20 Q21 Q22	8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-175-72 s TRANSISTOR 2SC2757-T33	R62 R63 R65	1-216-635-11 1-216-658-11 1-218-704-11	S METAL, CHIP 3.9K 0.5% 1/10W S METAL, CHIP 220 0.5% 1/10W S METAL, CHIP 2K 0.5% 1/10W S METAL, CHIP 3.3K 0.5% 1/16W S METAL, CHIP 6.8K 0.5% 1/10W
Q23 Q24 Q25 Q26 Q27	8-729-403-32 s TRANSISTOR XN6534 8-729-403-29 s TRANSISTOR XN6435 8-729-403-29 s TRANSISTOR XN6435 8-729-403-29 s TRANSISTOR XN6435 8-729-109-44 s TRANSISTOR 2SK94	R68 R69 R78	1-216-671-11 1-218-700-11 1-216-645-11	S RES, CHIP 1M 5% 1/16W S METAL, CHIP 6.8K 0.5% 1/10W S METAL, CHIP 2.2K 0.5% 1/16W S METAL, CHIP 560 0.5% 1/10W S METAL, CHIP 10K 0.5% 1/16W
Q28 Q29 Q30 Q31 Q32	8-729-109-44 S TRANSISTOR 25K94 8-729-109-44 S TRANSISTOR 25K94 8-729-109-44 S TRANSISTOR 25K94	R81 R85 R90	1-218-708-11 1-216-699-11 1-208-806-11	S METAL, CHIP 27K 0.5% 1/16W S METAL, CHIP 4.7K 0.5% 1/16W S METAL, CHIP 100K 0.5% 1/10W S METAL, CHIP 10K 0.5% 1/10W S METAL, CHIP 820 0.5% 1/10W
Q33 Q34 Q35 Q36 Q45	8-729-216-22 s TRANSISTOR 2SA812 8-729-216-22 s TRANSISTOR 2SA812 8-729-120-28 s TRANSISTOR 2SC1623 8-729-120-28 s TRANSISTOR 2SC1623	R95 R96 R98	1-216-635-11 : 1-218-732-11 : 1-216-662-11 :	S METAL, CHIP 1.5K 0.5% 1/10W S METAL, CHIP 330 0.5% 1/10W S METAL, CHIP 47K 0.5% 1/16W S METAL, CHIP 3K 0.5% 1/10W S METAL, CHIP 3.6K 0.5% 1/16W
Q51 Q52 Q53 Q54 R1	8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-403-29 s TRANSISTOR XN-6435 1-216-649-11 s METAL, CHIP 820 0.5% 1/10W	R106 R107 R108	1-216-627-11	S METAL, CHIP 6.2K 0.5% 1/10W S METAL, CHIP 100 0.5% 1/10W S METAL, CHIP 3.9K 0.5% 1/10W S METAL, CHIP 220 0.5% 1/10W S METAL, CHIP 2K 0.5% 1/10W
R4 R5 R6 R8	1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-218-732-11 s METAL, CHIP 47K 0.5% 1/16W 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W	R112 R114 R115	1-218-867-11 s 1-216-671-11 s 1-218-700-11 s	S METAL, CHIP 3.3K 0.5% 1/16W S METAL, CHIP 6.8K 0.5% 1/16W S METAL, CHIP 6.8K 0.5% 1/10W S METAL, CHIP 2.2K 0.5% 1/16W S METAL, CHIP 560 0.5% 1/10W
R11 R16 R17 R18	1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W 1-208-801-11 s METAL, CHIP 6.2K 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W	R130 R131 R136	1-218-710-11 s 1-216-699-11 s 1-208-806-11 s	S METAL, CHIP 4.7K 0.5% 1/16W S METAL, CHIP 5.6K 0.5% 1/16W S METAL, CHIP 100K 0.5% 1/10W S METAL, CHIP 10K 0.5% 1/10W S METAL, CHIP 1.5K 0.5% 1/10W
R21 R22 R23 R24	1-216-658-11 s METAL, CHIP 2K 0.5% 1/10W 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-218-857-11 s RES, CHIP 1M 5% 1/16W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W	R147 1 R148 1 R172 1 R173 1	1-218-740-11 s 1-218-732-11 s 1-216-603-11 s	RES, CHIP 1M 5% 1/16W METAL, CHIP 100K 0.5% 1/16W METAL, CHIP 47K 0.5% 1/16W METAL, CHIP 10 0.5% 1/10W METAL, CHIP 10 0.5% 1/16W
R26 R27 R29 R34	1-218-700-11 s METAL, CHIP 2.2K 0.5% 1/16W 1-218-720-11 s METAL, CHIP 15K 0.5% 1/16W 1-218-664-11 s METAL, CHIP 68 0.5% 1/16W 1-218-732-11 s METAL, CHIP 47K 0.5% 1/16W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W	R178 1 R181 1 R182 1	1-216-654-11 s 1-216-689-11 s 1-216-689-11 s	METAL, CHIP 10 0.5% 1/16W METAL, CHIP 1.3K 0.5% 1/10W METAL, CHIP 39K 0.5% 1/10W METAL, CHIP 39K 0.5% 1/10W METAL, CHIP 39K 0.5% 1/10W
R39 R44 R45 R47	1-218-708-11 s METAL, CHIP 4.7K 0.5% 1/16W 1-218-740-11 s METAL, CHIP 100K 0.5% 1/16W 1-208-806-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-649-11 s METAL, CHIP 820 0.5% 1/10W 1-216-635-11 s METAL, CHIP 330 0.5% 1/10W	R187 1 R190 1 R191 1 R192 1	-216-655-11 s -218-692-11 s -218-757-11 s -218-762-11 s	METAL, CHIP 1.5K 0.5% 1/10W METAL, CHIP 1K 0.5% 1/16W METAL, CHIP 160K 0.5% 1/10W METAL, CHIP 270K 0.5% 1/10W METAL, CHIP 100K 0.5% 1/10W
R49	1-216-680-11 s METAL, CHIP 330 0.5% 1/16W 1-218-838-11 s METAL CHIP 330 0.5% 1/10W 1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W	R195 I	-218-742-11 s	METAL, CHIP 120K 0.5% 1/16W METAL, CHIP 120K 0.5% 1/16W

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(VA-168 BOARD)
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Ref. No.
or Q'ty Part No.
                       SP Description
R197
          1-218-726-11 s METAL, CHIP 27K 0.5% 1/16W
          1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W 1-218-716-11 s METAL, CHIP 10K 0.5% 1/16W
R211
R212
R213
          1-218-732-11 s METAL, CHIP 47K 0.5% 1/16W
          1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W
R214
         1-216-651-11 s METAL, CHIP 100K 0.5% 1/10W I-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W
R215
R216
          1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W
1-208-803-11 s METAL, CHIP 7.5K 0.5% 1/10W
R217
R218
          1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
R219
         R221
R222
R223
RV1
          1-228-472-00 s RES, ADJ, METAL 2K
          1-237-037-11 s RES, ADJ, METAL 20K
RV2
          1-237-036-11 s RES, ADJ, METAL 10K
RV3
          1-228-475-00 s RES, ADJ, METAL 20K
RV4
          1-228-472-00 s RES, ADJ, METAL 2K
RV5
RV6
          1-237-037-11 s RES, ADJ, METAL 20K
          1-237-036-11 s RES, ADJ, METAL 10K
RV7
RV8
          1-228-475-00 s RES, ADJ, METAL 20K
RV9
          1-228-472-00 s RES, ADJ, METAL 2K
          1-237-037-11 s RES, ADJ, METAL 20K
RV10
RV11
          1-237-036-11 s RES, ADJ, METAL 10K
          1-228-475-00 s RES, ADJ, METAL 20K
RV12
          1-237-034-11 s RES, ADJ; METAL 2K
RV15
RV16
          1-237-034-11 s RES, ADJ, METAL 2K
          1-237-034-11 s RES, ADJ, METAL 2K
RV17
         1-237-036-11 s RES, ADJ, METAL 10K
1-237-036-11 s RES, ADJ, METAL 10K
RV18
RV19
          1-237-036-11 s RES, ADJ, METAL 10K
RV20
RV21
          1-237-037-11 s RES, ADJ, METAL 20K
          1-237-037-11 s RES, ADJ, METAL 20K
RV22
          1-570-857-11 s SWITCH, SLIDE
SI
          1-572-446-21 s SWITCH, SLIDE
S2
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VDA-11P BOARD (Serial No. 41954 through 44160)
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VDA-11P	BOARD (Serial No. 41954 through 44160)
Ref. No. or Q'ty	Part No. SP Description
1pc 1pc 1pc 5pcs 1pc	A-6711-993-A O MOUNTED CIRCUIT BOARD, VDA-11P 3-724-707-01 O PLATE (VDA-11), ORNAMENTAL 3-724-753-01 O RING 3-729-061-01 s SCREW (M2X4.5) (TYPE 1) 7-688-001-12 s W 2, MIDDLE
C1 C2 C4 C6 C8	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
C17	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-163-251-11 s CERAMIC 100PF 5% 50V 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
C202 C203 C205 C207 C209	1-163-120-00 s CERAMIC, CHIP 130PF 5% 50V 1-135-142-21 s TANTAL 22uF 20% 10V 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
C210 C212 C214 C219 C220	1-163-251-11 s CERAMIC 100PF 5% 50V 1-163-120-00 s CERAMIC, CHIP 130PF 5% 50V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V
C221 C225 C226 C227 C228	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-163-245-11 s CERAMIC 56PF 5% 50V 1-163-245-11 s CERAMIC 56PF 5% 50V 1-135-142-21 s TANTAL 22uF 20% 10V 1-163-227-11 s CERAMIC 10PF 5% 50V
C229	1-163-227-11 s CERAMIC 10PF 5% 50V
CN1 CN2	1-566-960-11 o CONNECTOR, 50P, MALE 1-566-388-11 s CONNECTOR, 8P, MALE
CNJ2	1-565-413-11 o PLUG, SHORTING
CV1 CV2 CV3 CV4 CV11	1-141-423-21 s CAR, TRIMMER 20PF 1-141-423-21 s CAR, TRIMMER 20PF 1-141-423-21 s CAR, TRIMMER 20PF 1-141-423-21 s CAR, TRIMMER 20PF 1-141-423-21 s CAR, TRIMMER 20PF
CV13	1-141-423-21 s CAR, TRIMMER 20PF 1-141-423-21 s CAR, TRIMMER 20PF 1-141-423-21 s CAR, TRIMMER 20PF
D201 D301	8-719-123-85 s DIODE 1SS304 8-719-105-82 s DIODE RD5.1M-B2
FL2 FL202	1-236-021-11 s FILTER, LOW-PASS 1-236-126-12 s FILTER, LOW PASS 1-236-621-11 s FILTER, LOW PASS 1-236-621-11 s FILTER, LOW PASS
IC3 IC101	8-759-209-15 s IC TC4SU69F 8-741-152-41 s IC SBX1524-21 8-759-209-15 s IC TC4SU69F 8-759-209-15 s IC TC4SU69F 8-741-152-32 s IC SBX1523-03
IC301	8-759-230-99 s IC TC74HC4053AF
L1	1-408-789-21 s CHIP 100uH

(VDA-11P BC	OARD)			(VDA-11P	BOARD)		
Ref. No. or Q'ty Pa	art No. SP Description			Ref. No.	Part No.	SP Descriptio	'n
L3 1- L4 1- L101 1-	-408-789-21 s CHIP 100uH -408-777-00 s CHIP 10uH -408-785-21 s CHIP 47uH -408-789-21 s CHIP 100uH -408-797-11 s CHIP 470uH			Q203 Q204 Q205 Q206 Q207	8-729-117-3 8-729-117-3 8-729-117-3 8-729-117-3	82 s TRANSISTOR 82 s TRANSISTOR 82 s TRANSISTOR 82 s TRANSISTOR 6 s TRANSISTOR	2SC4177 2SC4177 2SC4177 2SC4177
L105 1- L106 1- L202 1-	-408-797-11 s CHIP 470uH -408-789-21 s CHIP 100uH -408-789-21 s CHIP 100uH -408-789-21 s CHIP 100uH -408-785-21 s CHIP 47uH	*		Q209 Q210 Q211	8-729-117-3 8-729-117-3 8-729-117-1	2 s TRANSISTOR 2 s TRANSISTOR 2 s TRANSISTOR 6 s TRANSISTOR 7 s TRANSISTOR	2SC4177 2SC4177 2SA1611-M6
L205 1-	408-785-21 s CHIP 47uH 408-789-21 s CHIP 100uH 410-385-11 s INDUCTOR, CHIP 22uH			•		0 s TRANSISTOR 1 s METAL, CHII	
LV201 1-	412-018-11 s COIL, VAR 5.6uH		,	R3 R4	1-216-994-1 1-216-840-1	1 s METAL CHIP 1 s METAL CHIP 1 s METAL, CHII	13K 5% 1/16W P 39K 5% 1/16W
Q2 8- Q3 8- Q4 8-	729-905-18 s TRANSISTOR DTC144EU 729-905-18 s TRANSISTOR DTC144EU 729-122-63 s TRANSISTOR 2SA1226 729-122-63 s TRANSISTOR 2SA1226 729-117-32 s TRANSISTOR 2SC4177			R6 R7 R8	1-216-680-1 1-216-822-1 1-216-829-1	l s METAL, CHII	P 5.1K 0.5% 1/10W P 16K 0.5% 1/10W P 1.2K 5% 1/16W P 4.7K 5% 1/16W P 470 5% 1/16W
Q7 8-1 Q8 8-1 Q9 8-1	729-117-32 s TRANSISTOR 2SC4177 729-117-16 s TRANSISTOR 2SA1611-M6 729-117-72 s TRANSISTOR 2SC4178 729-117-16 s TRANSISTOR 2SA1611-M6 729-905-18 s TRANSISTOR DTC144EU			R10 R12 R13 R14	1-216-828-1 1-218-312-1 1-216-823-1 1-216-821-1	1 s METAL, CHIE 1 s METAL, CHIE 1 s METAL, CHIE 1 s METAL, CHIE	2 3.9K 5% 1/16W 2 470 1% 1/16W 2 1.5K 5% 1/16W
Q12 8-7 Q101 8-7 Q106 8-7	729-117-72 s TRANSISTOR 2SC4178 729-905-12 s TRANSISTOR DTA144EU 729-117-72 s TRANSISTOR 2SC4178 729-117-72 s TRANSISTOR 2SC4178 729-117-72 s TRANSISTOR 2SC4178			R16 R17 R18 R19	1-216-827-1 1-216-821-1 1-216-821-1 1-216-826-1	1 s METAL, CHIF 1 s METAL, CHIF 1 s METAL, CHIF 1 s METAL, CHIF	9 3.3K 5% 1/16W P 1K 5% 1/16W
Q109 8-7 Q110 8-7 Q111 8-7 Q112 8-7	729-109-44 s TRANSISTOR 2SK94 729-109-44 s TRANSISTOR 2SK94 729-109-44 s TRANSISTOR 2SK94 729-109-44 s TRANSISTOR 2SK94 729-117-72 s TRANSISTOR 2SC4178			R21 R22 R23 R24 R25	1-216-827-1 1-216-825-1 1-216-833-1 1-216-833-1 1-216-838-1	1 s METAL, CHIF	2 3.3K 5% 1/16W 2 2.2K 5% 1/16W 2 10K 5% 1/16W 2 10K 5% 1/16W 2 27K 5% 1/16W
Q115 8-7 Q116 8-7 Q117 8-7 Q118 8-7	729-117-72 s TRANSISTOR 2SC4178 729-117-72 s TRANSISTOR 2SC4178 729-117-72 s TRANSISTOR 2SC4178 729-905-12 s TRANSISTOR DTA144EU 729-905-12 s TRANSISTOR DTA144EU			R27 R28 R29 R30	1-216-829-11 1-216-833-11 1-216-839-11 1-216-837-11	I S METAL, CHIP I S METAL, CHIP I S METAL, CHIP I S METAL, CHIP	33K 5% 1/16W 22K 5% 1/16W
Q121 8-7 Q122 8-7 Q123 8-7 Q131 8-7	729-117-32 s TRANSISTOR 2SC4177 729-117-16 s TRANSISTOR 2SA1611-M6 729-117-32 s TRANSISTOR 2SC4177 729-117-16 s TRANSISTOR 2SA1611-M6 729-109-44 s TRANSISTOR 2SK94			R32 R33 R34 R45	1-216-846-11 1-216-833-11 1-216-865-11 1-216-809-11	is METAL, CHIP is METAL CHIP is METAL, CHIP	120K 5% 1/16W 10K 5% 1/16W 3K 1/16W 100 5% 1/16W
Q133 8-7 Q134 8-7 Q153 8-7	729-109-44 s TRANSISTOR 2SK94 729-109-44 s TRANSISTOR 2SK94 729-109-44 s TRANSISTOR 2SK94 729-209-07 s TRANSISTOR 2SC4213-B 729-209-07 s TRANSISTOR 2SC4213-B			R102 R103 R104	1-216-825-11 1-216-817-11 1-216-821-11	I s METAL, CHIP I s METAL, CHIP I s METAL, CHIP	
Q156 8-7 Q157 8-7 Q158 8-7	729-117-32 s TRANSISTOR 2SC4177 729-117-72 s TRANSISTOR 2SC4178 729-117-72 s TRANSISTOR 2SC4178 729-109-44 s TRANSISTOR 2SK94 729-109-44 s TRANSISTOR 2SK94			R106 R108 R109 R110	1-216-821-11 1-216-817-11 1-216-845-11 1-216-817-11	I S METAL, CHIP I S METAL, CHIP I S METAL, CHIP I S METAL, CHIP	1K 5% 1/16W 470 5% 1/16W 100K 5% 1/16W 470 5% 1/16W
Q161 8-7 Q201 8-7	729-109-44 s TRANSISTOR 2SK94 729-109-44 s TRANSISTOR 2SK94 729-117-32 s TRANSISTOR 2SC4177 729-117-32 s TRANSISTOR 2SC4177		. •	R112	1-216-817-11 1-216-845-11	l s METAL, CHIP	100K 5% 1/16W

Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
R115 R116 R117 R118 R119	1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-809-11 s METAL, CHIP 100 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-815-11 s METAL, CHIP 330 5% 1/16W	R190 1-216-864-11 s METAL, CHIP 0-0HM R191 1-216-816-11 s METAL, CHIP 390 5% 1/16W R201 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R202 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R203 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R120 R121 R122 R123 R124	1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-840-11 s METAL, CHIP 39K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W	R204 1-216-825-11 s METAL, CHIP 2. 2K 5% 1/16W R205 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R206 1-216-818-11 s METAL, CHIP 560 5% 1/16W R207 1-216-827-11 s METAL, CHIP 3. 3K 5% 1/16W R208 1-216-820-11 s METAL, CHIP 820 5% 1/16W
R125 R126 R127 R128 R129	1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W	R209 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R210 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R211 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R212 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R213 1-216-821-11 s METAL, CHIP 10K 5% 1/16W
R130 R131 R132 R133 R134	1-216-809-11 \$ METAL, CHIP 100 5% 1/16W 1-216-827-11 \$ METAL, CHIP 3.3K 5% 1/16W 1-218-289-11 \$ METAL CHIP 510 5% 1/16W 1-218-289-11 \$ METAL CHIP 510 5% 1/16W 1-218-288-11 \$ METAL, CHIP 300 5% 1/16W	R214 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R215 1-216-817-11 s METAL, CHIP 470 5% 1/16W R216 1-216-836-11 s METAL, CHIP 18K 5% 1/16W R217 1-216-821-11 s METAL, CHIP 18K 5% 1/16W R218 1-216-818-11 s METAL, CHIP 560 5% 1/16W
R136 R138 R140 R141 R142	1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W 1-218-303-11 s METAL, CHIP 10K 1% 1/16W	R219 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R221 1-216-864-11 s METAL, CHIP 0-0HM R222 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W R223 1-216-820-11 s METAL, CHIP 820 5% 1/16W R224 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
R143 R144 R145 R146 R147	1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-814-11 s METAL, CHIP 270 5% 1/16W 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W	R226 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R227 1-216-840-11 s METAL, CHIP 39K 5% 1/16W R228 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R229 1-218-303-11 s METAL, CHIP 10K 1% 1/16W R230 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R148 R149 R150 R151 R160	1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W	R231 1-216-834-11 s METAL, CHIP 12K 5% 1/16W R232 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R233 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R234 1-216-832-11 s METAL, CHIP 8.2K 5% 1/16W R236 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W
R161 R162 R163 R164 R165	1-216-818-11 s METAL, CHIP 560 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W	R237 1-216-814-11 s METAL, CHIP 270 5% 1/16W R238 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R239 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R240 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R241 1-216-791-11 s METAL CHIP 3.3 5% 1/16W
R166 R167 R168 R169 R170	1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-845-11 s METAL, CHIP 100K 5% 1/16W	R242 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R243 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R244 1-216-830-11 s METAL, CHIP 5.6K 5% 1/16W R245 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R301 1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R171 R172 R173 R174	1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W	R302 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R304 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R305 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W
R180 R181 R182 R183 R184	1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-797-11 s METAL, CHIP 10 5% 1/16W 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W 1-216-797-11 s METAL, CHIP 10 5% 1/16W 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W	RV1 1-237-036-11 s RES, ADJ, METAL 10K RV2 1-237-036-11 s RES, ADJ, METAL 10K RV3 1-237-034-11 s RES, ADJ, METAL 2K RV4 1-237-039-11 s RES, ADJ, METAL 100K RV5 1-237-034-11 s RES, ADJ, METAL 2K
R185 R186 R187 R188 R189	1-216-864-11 s METAL, CHIP 0-OHM 1-216-789-11 s METAL CHIP 2.2 5% 1/16W	RV6 1-237-035-11 s RES, ADJ, METAL 5K RV7 1-237-037-11 s RES, ADJ, METAL 2OK RV101 1-237-035-11 s RES, ADJ, METAL 5K RV102 1-237-035-11 s RES, ADJ, METAL 5K RV103 1-237-035-11 s RES, ADJ, METAL 5K

(VDA-11P BOARD)

Ref. No. or Q'ty Part No. SP Description 1-237-035-11 s RES, ADJ, METAL 5K RV104 1-237-032-11 s RES, ADJ, METAL 500 RV105 1-230-867-11 s RES, ADJ, METAL 1K 1-230-868-11 s RES, ADJ, METAL 2.2K RV107 RV108 1-237-035-11 s RES, ADJ, METAL 5K RV201 RV202 1-237-035-11 s RES, ADJ, METAL 5K 1-237-038-11 s RES, ADJ, METAL 50K RV203 1-230-871-11 s RES, ADJ, METAL 22K RV204 1-237-033-11 s RES, ADJ, METAL 1K RV205 1-237-033-11 s RES, ADJ, METAL 1K RV206 1-230-871-11 s RES, ADJ, METAL 22K RV208 1-237-035-11 s RES, ADJ, METAL 5K RV209 RV210 1-237-035-11 s RES, ADJ, METAL 5K 1-237-034-11 s RES, ADJ, METAL 2K RV211 1-237-036-11 s RES, ADJ, METAL 10K RV212 1-237-036-11 s RES, ADJ, METAL 10K RV213 1-808-862-21 s THERMISTER (CHIP) TH1

VDA-11P BOARD (Serial No. 44161 and higher)

or Q'ty Part No. SP Description A-6711-993-B o MOUNTED CIRCUIT BOARD, VDA-11P lpc 3-724-707-01 o PLATE (VDA-11), ORNAMENTAL 1pc 3-724-753-01 o RING 1pc 7-688-001-12 s W 2, MIDDLE 1pc 3-729-061-01 s SCREW (M2X4.5) (TYPE 1) 5pcs 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V C1 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V C2 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V C4 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V C6 1-162-970-11 s CERANIC, CHIP 0.01uF 10% 25V C7 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V C8 1-162-970-11 s CERANIC, CHIP 0.01uF 10% 25V C9 1-164-360-11 s CERAMIC, CHIP 0. 1uF 10% 16V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V C10 C11 1-162-917-11 s CERAMIC, CHIP 15PF 5% 50V C12 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C13 C14 C15 1-126-392-11 s ELECT, CHIP 100UF 20% 6.3V 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V C16 C17 1--164--360--11 s CERAMIC, CHIP 0.1uF 10% 16V C101 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-162-963-11 s CERAMIC, CHIP 0.1uF 10% 16V C103 C104 C105 1-164-217-11 s CERAMIC, CHIP 150PF 5% 50V C106 1-162-964-11 s CERAMIC, CHIP 0.001uF 10% 50V 1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V C107 C108 C109 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V C110 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V C111 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V C112 C113 1-164-360-11 s CERAMIC, CHIP 0. 1uF 10% 16V 1-164-360-11 s CERAMIC, CHIP 0. 1uF 10% 16V C114 C115 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V C116 1-164-315-11 s CERAMIC, CHIP 470PF 5% 50V 1-164-315-11 s CERAMIC, CHIP 470PF 5% 50V 1-164-217-11 s CERAMIC, CHIP 150PF 5% 50V C119 C120 C121 1-164-217-11 s CERAMIC, CHIP 150PF 5% 50V C122 C130 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V C131 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V C132 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V C155 C156 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V C157 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V C200 1-162-924-11 s CERAMIC, CHIP 56PF 5% 50V 1-162-917-11 s CERAMIC, CHIP 15PF 5% 50V C201 C202 1-162-919-11 s CERANIC, CHIP 22PF 5% 50V C203 1-135-166-21 s TANTALUM, CHIP 47uF 20% 10V C204 1-135-177-21 s TANTALUM, CHIP 1uF 20% 25V 1-135-177-21 s TANTALUM, CHIP 1uF 20% 25V C205 C206 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V C207 C208 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V C209 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V C210 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V C211 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V C212 C213 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V

Ref. No. or Q'ty	Part No. SP Description	*. •	Ref. No. or Q'ty	Part No. SP Description
C220	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-162-924-11 s CERAMIC, CHIP 56PF 5% 50V		CV14	1-141-423-61 s CAP, ADJ
C221 C222 C223 C224	1-162-917-11 s CERAMIC, CHIP 15PF 5% 50V 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V 1-135-166-21 s TANTALUM, CHIP 47uF 20% 10V		D200 D201	8-719-941-23 s DIODE DA204UT106 8-719-821-39 s DIODE 1SV160
C225 C226 C227 C228	1-135-177-21 s TANTALUM, CHIP luf 20% 25V 1-135-177-21 s TANTALUM, CHIP luf 20% 25V 1-126-391-11 s ELECT, CHIP 47uf 20% 6.3V 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V		FL1 FL2 FL200 FL201	1-236-021-21 s FILTER, LOW-PASS 1-236-126-12 s FILTER, LOW PASS 1-236-621-11 s FILTER, LOW PASS 1-236-621-11 s FILTER, LOW PASS
C229 C230 C231 C232	1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V		IC1 IC2 IC3 IC101 IC200	8-759-209-15 s IC TC4SU69F 8-741-152-41 s IC SBX1524-21 8-759-209-15 s IC TC4SU69F 8-759-209-15 s IC TC4SU69F 8-752-334-55 s IC CXD1175AM
C233 C234	1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V		IC201 IC202	8-752-334-55 s IC CXD1175AM 8-752-329-28 s IC CXD1151Q 8-752-334-64 s IC CXD1171M
C235 C236 C237 C238	1-164-227-11 s CERAMIC, CHIP 0.022uF 10% 25V		IC203 IC204 IC206 IC207	8-752-356-84 s IC CXD2215AQ 8-759-079-81 s IC TC74VHC221AFS 8-759-184-65 s IC TC4W66FU
C239 C240 C241 C242 C243	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V		IC208 IC209 IC210 IC211	8-759-030-16 s IC MC34182M 8-759-100-94 s IC UPC358G2-E2 8-759-096-87 s IC TC7WU04FU 8-759-079-81 s IC TC74VHC221AFS
C244 C245	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V		IC212 IC213 IC301	8-759-079-81 s IC TC74VHC221AFS 8-759-082-61 s IC TC4W53FU 8-759-082-61 s IC TC4W53FU
C246 C247 C248 C249	1-162-924-11 s CERAMIC, CHIP 56PF 5% 50V 1-162-921-11 s CERAMIC, CHIP 33PF 5% 50V 1-135-157-21 s TANTALUM, CHIP 10uF 10% 6.3V 1-162-959-11 s TANTALUM, CHIP 330PF 5% 50V		L1 L2 L3 L4	1-412-064-11 s INDUCTOR 100uH 1-412-064-11 s INDUCTOR 100uH 1-412-058-11 s INDUCTOR 10uH 1-408-785-21 s INDUCTOR CHIP 47uH
C250 C251 C252 C253 C254	1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V 1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-107-826-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-164-315-11 s CERAMIC, CHIP 470PF 5% 50V 1-162-917-11 s CERAMIC, CHIP 15PF 5% 50V		L101 L103 L104 L105	1-412-064-11 s INDUCTOR 100uH 1-408-797-11 s INDUCTOR CHIP 470uH 1-408-797-11 s INDUCTOR CHIP 470uH 1-412-064-11 s INDUCTOR 100uH 1-412-064-11 s INDUCTOR 100uH
C255 C256 C257 C258 C259	1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V 1-162-919-11 s CERAMIC, CHIP 22PF 5% 50V 1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V 1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V 1-162-923-11 s CERAMIC, CHIP 47PF 5% 50V		L200 L201 L202 L203 L204	1-412-064-11 s INDUCTOR 100uH 1-410-377-31 s INDUCTOR, CHIP 4.7uH 1-412-064-11 s INDUCTOR 100uH 1-410-377-31 s INDUCTOR, CHIP 4.7uH 1-412-064-11 s INDUCTOR 100uH
C261 C262 C271 C272 C273	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V		L205 L206 L207	1-412-064-11 s INDUCTOR 100uH 1-412-064-11 s INDUCTOR 100uH 1-412-064-11 s INDUCTOR 100uH
C274 C275 C301	1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V 1-164-360-11 s CERAMIC, CHIP 0.1uF 10% 16V		LV200 Q1 Q2	1-412-810-11 s COIL, VAR 5. GuH 8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-18 s TRANSISTOR DTC144EU 8-729-117-32 s TRANSISTOR 2SC4177
CN1 CN2	1-566-960-11 o CONNECTOR, 50P, MALE 1-566-388-11 s CONNECTOR, 2P, MALE		Q3 Q5 Q6	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177
CNJ2	1-565-413-11 o CONNECTOR 2P		Q7 Q8	8-729-117-16 s TRANSISTOR 2SA1611-M6 8-729-117-72 s TRANSISTOR 2SC4178
CV1 CV2 CV3	1-141-423-61 s CAP, ADJ 1-141-423-61 s CAP, ADJ 1-141-423-61 s CAP, ADJ		Q9 Q10 Q11	8-729-117-16 s TRANSISTOR 2SA1611-M6 8-729-905-18 s TRANSISTOR DTC144EU 8-729-117-72 s TRANSISTOR 2SC4178
CV11 CV12 CV13	1-141-423-61 s CAP, ADJ 1-141-423-61 s CAP, ADJ 1-141-423-61 s CAP, ADJ 1-141-423-61 s CAP, ADJ		Q12 Q13 Q101 Q106	8-729-905-12 s TRANSISTOR DTA144EU 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-72 s TRANSISTOR 2SC4178 8-729-117-72 s TRANSISTOR 2SC4178

(1211 222		(IDN 111 DOME)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
Q107 Q108 Q109 Q110 Q111	8-729-117-72 s TRANSISTOR 2SC4178 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94	R20 1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W R21 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R22 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R23 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R24 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
Q112 Q114 Q115 Q116 Q117	8-729-117-72 s TRANSISTOR 2SC4178 8-729-117-72 s TRANSISTOR 2SC4178 8-729-117-72 s TRANSISTOR 2SC4178 8-729-117-72 s TRANSISTOR 2SC4178 8-729-905-12 s TRANSISTOR DTA144EU	R25 1-216-838-11 s METAL, CHIP 27K 5% 1/16W R26 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R27 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R28 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R29 1-216-839-11 s METAL, CHIP 33K 5% 1/16W
Q118 Q120 Q121 Q122 Q123	8-729-905-12 s TRANSISTOR DTA144EU 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-16 s TRANSISTOR 2SA1611-M6 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-16 s TRANSISTOR 2SA1611-M6	R30
Q131 Q132 Q133 Q134 Q153	8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-209-07 s TRANSISTOR 2SK94	R35
Q154 Q155 Q156 Q157 Q158	8-729-209-07 s TRANSISTOR 2SC4213B 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-72 s TRANSISTOR 2SC4178 8-729-117-72 s TRANSISTOR 2SC4178 8-729-109-44 s TRANSISTOR 2SK94	R103 1-216-817-11 s METAL, CHIP 470 5% 1/16W R104 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R105 1-216-825-11 s METAL, CHIP 1K 5% 1/16W R106 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R108 1-216-817-11 s METAL, CHIP 470 5% 1/16W
Q159 Q160 Q161 Q200 Q201	8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-16 s TRANSISTOR 2SA1611	R109 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R110 1-216-817-11 s METAL, CHIP 470 5% 1/16W R111 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R112 1-216-817-11 s METAL, CHIP 470 5% 1/16W R113 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
Q202 Q203 Q204 Q205 Q206	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-118-58 s TRANSISTOR 2SK852 8-729-904-41 s TRANSISTOR FMY3	R114 1-216-817-11 s METAL, CHIP 470 5% 1/16W R115 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R116 1-216-817-11 s METAL, CHIP 470 5% 1/16W R117 1-216-809-11 s METAL, CHIP 100 5% 1/16W R118 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
Q207 Q208 Q209 Q210 Q211	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-16 s TRANSISTOR 2SA1611 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177	R119 1-216-815-11 s METAL, CHIP 330 5% 1/16W R120 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R121 1-216-840-11 s METAL, CHIP 39K 5% 1/16W R122 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R123 1-216-837-11 s METAL, CHIP 22K 5% 1/16W
Q212 Q213 Q214 Q215 Q303	8-729-118-58 s TRANSISTOR 2SK852 8-729-904-41 s TRANSISTOR FMY3 8-729-117-16 s TRANSISTOR 2SA1611 8-729-117-16 s TRANSISTOR 2SA1611 8-729-807-51 s TRANSISTOR 2SD1623	R124 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R125 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R126 1-216-845-11 s METAL, CHIP 100K 5% 1/16W R127 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R128 1-216-845-11 s METAL, CHIP 100K 5% 1/16W
R1 R2 R3 R4 R5	1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-218-293-11 s METAL, CHIP 24K 5% 1/16W 1-216-994-11 s METAL, CHIP 13K 5% 1/16W 1-216-840-11 s METAL, CHIP 39K 5% 1/16W 1-218-864-11 s METAL, CHIP 5.1K 0.5% 1/16W	R129 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R130 1-216-809-11 s METAL, CHIP 100 5% 1/16W R131 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R132 1-218-289-11 s METAL, CHIP 510 5% 1/16W R133 1-218-289-11 s METAL, CHIP 510 5% 1/16W
R6 R7 R8 R9 R10	1-218-721-11 s METAL, CHIP 16K 0.5% 1/16W 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W 1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-828-11 s METAL, CHIP 3.9K 5% 1/16W	R134
R11 R13 R17 R18 R19	1-216-817-11 s METAL, CHIP 470 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-821-11 s METAL, CHIP 1K 5% 1/16W 1-216-826-11 s METAL, CHIP 2.7K 5% 1/16W	R142 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R143 1-216-822-11 s METAL, CHIP 1.2K 5% 1/16W R144 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R145 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R146 1-216-814-11 s METAL, CHIP 270 5% 1/16W

R227

R228

RV201

RV202

1-237-034-11 s RES, ADJ, METAL 2K

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Ref. No.
or Q'ty Part No.
                     SP Description
         1-237-033-11 s RES, ADJ, METAL 1K
RV203
         1-237-034-11 s RES, ADJ, METAL 2K
RV204
         1-237-037-11 s RES, ADJ, METAL 20K
RV206
         1-237-037-11 s RES, ADJ, METAL 20K
RV207
         1-237-035-11 s RES, ADJ, METAL 5K
RV208
         1-237-035-11 s RES, ADJ, METAL 5K
RV200
         1-237-035-11 s RES, ADJ, METAL 5K
RV210
         1-809-308-21 s THERMISTER (CHIP)
TH200
         1-760-109-21 s CRYSTAL 10.738635MHz
X200
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(VDA-11P BOARD)

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VF-32 BOARD (Serial No. 41954 through 43999)
Ref. No.
or Q'ty Part No.
                      SP Description
         A-7513-642-B o MOUNTED CIRCUIT BOARD, VF-32
1pc
         1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C1
         1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V
C2
          1-135-155-21 s TANTAL CHIP 4.7uF 10% 16V
C4
          1-163-115-00 s CERAMIC, CHIP 82PF 5% 50V
C8
          1-136-534-11 s FILM 0.0027uF 5% 100V
C15
          1-136-683-11 s FILM 0.0056uF 5% 100V
C16
          1-164-350-11 s CERAMIC 470PF 10% 1KV
C21
          1-126-233-11 s ELECT 22uF 20% 50V
C22
          1-163-833-00 s CERAMIC, CHIP 0.068uF 25V
C23
          1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C25
          1\text{--}135\text{--}076\text{--}21 s TANTALUM, CHIP 1uF 10% 35V 1\text{--}135\text{--}159\text{--}21 s TANTALUM, CHIP 10uF 10% 20V
C26
C27
          1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C30
          1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V
C31
          1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C33
          1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C34
          1-136-683-11 s FILM 0.0056uF 5% 100V
C35
          1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
 C37
          1-135-076-21 s TANTALUM, CHIP luF 10% 35V
 C38
           1-135-076-21 s TANTALUM, CHIP luF 10% 35V
           1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
 C41
           1-135-092-21 s TANTALUM, CHIP 3.3uF 10% 16V
 C42
           1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
 C45
           1-126-176-11 s ELECT 220uF 20% 10V
 C46
           1-124-455-00 s ELECT 100uF 20% 16V
 C47
           1-163-018-00 s CERAMIC, CHIP 0.0056uF 5% 50V
 C51
           1-566-395-11 o CONNECTOR, 10P, MALE
 CN1
           1-566-391-11 o CONNECTOR 12P
 CN2
           1-506-469-11 o CONNECTOR, 4P, MALE
 CN3
           1-506-470-11 o CONNECTOR, 5P, MALE
 CN<sub>4</sub>
           1-506-470-11 o CONNECTOR, 5P, MALE
 CN5
           1-506-467-11 o CONNECTOR, 2P, MALE
 CN6
           1-566-393-11 o CONNECTOR, 6P, MALE
 CN7
           1-141-370-11 s CAP, CHIP TRIMMER
 CV1
           8-719-914-11 s DIODE HZ4ALL
 D1
           8-719-800-76 s DIODE 1SS226
 D2
           8-719-900-95 s DIODE VO9G
  D3
            8-719-901-19 s DIODE V11N
  D5
            8-719-900-95 s DIODE V09G
  D6
            8-719-400-18 s DIODE MA152WK
  D7
            8-719-400-18 s DIODE MA152WK
  D8
            8-719-800-76 s DIODE 1SS226
  D9
            8-719-800-76 s DIODE 1SS226
  D10
            8-719-400-18 s DIODE MA152WK
  D11
            8-719-910-75 s DIODE HZ7B2L
  D12
            8-719-104-34 s DIODE 1S2836
  D13
            8-719-820-58 s DIODE 1SS177
  D14
            1-415-487-11 s DELAY LINE 140nS
  DL1
            8-759-300-28 s IC HA11423MP
   IC1
            8-759-100-94 s IC UPC358G2
   IC2
            8-759-209-57 s IC TC4S69F
   IC3
            8-759-209-54 s IC TC4S01F
   TC4
           △1-459-899-11 s COIL, HORIZONTAL LINEARITY
            1-410-716-31 s INDUCTOR CHIP 82uH
   L3
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Ref. No.
or Q'ty Part No.
                      SP Description
          8-729-175-72 s TRANSISTOR 2SC2757-T33
          8-729-175-72 s TRANSISTOR 2SC2757-T33
Q2
          8-729-175-72 s TRANSISTOR 2SC2757-T33
03
          8-729-175-72 s TRANSISTOR 2SC2757-T33
۵4
          8-729-100-66 s TRANSISTOR 2SC1623
05
          8-729-105-37 s TRANSISTOR 2SC3360
06
          8-729-100-66 s TRANSISTOR 2SC1623
          8-729-119-00 s TRANSISTOR 2SK612
Q8
          8-729-119-00 s TRANSISTOR 2SK612
۵9
          8-729-105-37 s TRANSISTOR 2SC3360
010
          8-729-100-66 s TRANSISTOR 2SC1623
011
          8-729-216-22 s TRANSISTOR 2SA1162
012
          8-729-175-72 s TRANSISTOR 2SC2757-T33
Q13
          8-729-100-66 s TRANSISTOR 2SC1623
014
          8-729-216-22 s TRANSISTOR 2SA1162
Q15
          8-729-141-48 s TRANSISTOR 2SB624-BV345
Q16
          8-729-109-44 s TRANSISTOR 2SK94
Q17
          8-729-216-22 s TRANSISTOR 2SA1162
Q18
          1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
R3
R4
          1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R5
          1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R8
          1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
          1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
R10
          1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
1-216-637-11 s METAL, CHIP 270 0.5% 1/10W
RII
R12
R14
          1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
R15
          1-216-639-11 s METAL, CHIP 330 0.5% 1/10W
          1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R17
          1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R19
          1-216-645-11 s METAL, CHIP 560 0.5% 1/10W 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
R20
R22
R23
          1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W
          1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
R25
          1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R26
          1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R27
          1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R28
          1-214-520-00 s METAL FILM 30 1% 1/8W
R29
          1-216-698-11 s METAL, CHIP 91K 0.5% 1/10W
R32
          1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W
R43
           1-215-490-00 s METAL 750K 1% 1/6W
R46
           1-216-681-11 s METAL, CHIP 18K 0.5% 1/10W
R79
          1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W
R82
R85
           1-216-693-11 s METAL, CHIP 56K 0.5% 1/10W
R86
           1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R87
           1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
R91
          1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-218-644-11 s METAL, CHIP 510 0.5% 1/10W 1-208-259-00 s MICRO (OHM) 10M
R92
R93
R97
           1-215-830-11 s METAL, FILM 100K 1% 1/8W
R102
           1-237-035-11 s RES, ADJ, METAL 5K
           1-237-035-11 s RES, ADJ, METAL 5K
RV2
RV3
           1-237-035-11 s RES, ADJ, METAL 5K
           1-237-041-11 s RES, ADJ, METAL 500K
RV4
           1-237-035-11 s RES, ADJ, METAL 5K
RV5
           1-237-031-11 s RES, ADJ, METAL 200
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Ref. No.
or Q'ty Part No. SP Description

RV7 1-237-032-11 s RES, ADJ, METAL 500
RV8 1-237-032-11 s RES, ADJ, METAL 500
RV9 1-237-038-11 s RES, ADJ, METAL 50K

T1 Δ1-439-419-11 s TRANSFORMER, FLYBACK

VDR1 1-806-497-00 s VARISTOR ERZ-C05DK220
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VF-50 BOARD (Serial No. 44001 and higher)	(VF-50 BOARD)
Ref. No.	Ref. No.
or Q'ty Part No. SP Description	or Q'ty Part No. SP Description
1pc A-8271-332-A o MOUNTED CIRCUIT BOARD, VF-50	IC1
C1 1-135-159-21 s TANTALUM, 10uF 10% 16V	IC2 8-759-100-94 s IC UPC35862 IC3 8-759-209-57 s IC TC4S69F
C2 1-135-125-21 s TANTALUM, CHIP 33uF 10% 10V C4 1-135-155-21 s TANTALUM 4.7uF 10% 16V	IC4 8-759-209-54 s IC TC4S01F
C8 1-163-249-11 s CERAMIC, CHIP 82PF 5% 50V	L2 A1-459-899-11 s COIL, HORIZONTAL LINEARITY
C13 1-131-374-00 s TANTALUM 33uF 10% 16V	L3 1-410-716-31 s INDUCTOR CHIP 82uH
C14 1-131-374-00 s TANTALUM 33uF 10% 16V	Q1 8-729-175-72 s TRANSISTOR 2SC2757-T33
C15	Q2 8-729-175-72 s TRANSISTOR 2SC2757-T33 Q3 8-729-175-72 s TRANSISTOR 2SC2757-T33
C21 1-164-350-11 s CERAMIC 470PF 10% 1KV C22 1-126-233-11 s ELECT 22uF 20% 50V	Q4 8-729-175-72 s TRANSISTOR 2SC2757-T33
	Q5 8-729-120-28 s TRANSISTOR 2SC1623-L6
C23 1-163-833-00 s CERAMIC, CHIP 0.068uF 25V C24 1-131-365-21 s TANTALUM 10uF 10% 20V	Q6 8-729-105-37 s TRANSISTOR 2SC3360 Q7 8-729-120-28 s TRANSISTOR 2SC1623-L6
C25 1-135-159-21 s TANTALUM, 10uF 10% 16V	Q8 8-729-119-00 s TRANSISTOR 2SK612
C26 1-135-076-21 s TANTALUM, 1uF 10% 35V C27 1-135-159-21 s TANTALUM, 10uF 10% 16V	Q9 8-729-119-00 s TRANSISTOR 2SK612 Q10 8-729-105-37 s TRANSISTOR 2SC3360
C30 1-135-159-21 s TANTALUM, 10uF 10% 16V	
C31 1-135-091-00 s TANTALUM, 1uF 10% 16V	Q11 8-729-120-28 s TRANSISTOR 2SC1623-L6 Q12 8-729-216-22 s TRANSISTOR 2SA812-M6
C33 1-135-159-21 s TANTALUM, 10uF 10% 16V C34 1-135-159-21 s TANTALUM, 10uF 10% 16V	Q13 8-729-175-72 s TRANSISTOR 2SC2757-T33 Q14 8-729-120-28 s TRANSISTOR 2SC1623-L6
C35 1-136-287-11 s FILM 0.0047uF 5% 100V	Q15 8-729-216-22 s TRANSISTOR 2SA812-M6
C37 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	Q16 8-729-141-48 s TRANSISTOR 2SB624-BV3
C38 1-135-076-21 s TANTALUM 1uF 10% 35V C39 1-135-076-21 s TANTALUM 1uF 10% 35V	Q17 8-729-109-44 s TRANSISTOR 2SK94 Q18 8-729-216-22 s TRANSISTOR 2SA812-M6
C41 1-135-159-21 s TANTALUM, 10uF 10% 16V	
C45 1-135-159-21 s TANTALUM, 10uF 10% 16V	R3 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W R4 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W
C46 1-126-176-11 s ELECT 220uF 20% 6.3V	R5 1-208-775-11 s METAL, CHIP 510 0.5% 1/10W
C47 1-124-455-00 s ELECT 100uF 20% 16V C49 1-163-243-11 s CERAMIC 47PF 5% 50V	R6 1-208-775-11 s METAL, CHIP 510 0.5% 1/10W R8 1-208-775-11 s METAL, CHIP 510 0.5% 1/10W
C42 1-135-092-21 s TANTALUM 3.3uF 10% 16V	
	R10 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W R11 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
C53 1-131-353-00 s TANTALUM 1uF 10% 35V	R12 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W R14 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W
CN1 1-580-534-11 o PIN, CONNECTOR (PC BOARD) 10P	R14 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W R15 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
CN2 1-580-535-11 o PIN, CONNECTOR (PC BOARD) 12P CN4 1-564-004-11 o CONNECTOR, 5P, MALE	R16 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W
CN5 1-506-470-11 o CONNECTOR, 5P, MALE	R17 1-208-775-11 s METAL, CHIP 510 0.5% 1/10W
CN6 1-506-467-11 o CONNECTOR, 2P, MALE	R19 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W R20 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W
CN7 1-580-532-11 o PIN, CONNECTOR (PC BOARD) 6P	R22 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
CV1 1-141-369-22 s CAP, CHIP TRIMMER	R23 1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W
D1 8-719-985-53 s DIODE HZS4ALL	R25 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W R26 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
D2 8-719-800-76 s DIODE 1SS123	R27 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
D3 8-719-900-95 s DIODE V09C D5 8-719-901-19 s DIODE V11N	R28 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
D6 8-719-900-95 s DIODE VO9C	R29 1-214-520-00 s METAL FILM 30 1% 1/8W R32 1-216-698-11 s METAL, CHIP 91K 0.5% 1/10W
D7 8-719-801-78 s DIODE 1S2837	R43 1-208-800-11 s METAL, CHIP 5.6K 0.5% 1/10W
D8 8-719-801-78 s DIODE 1S2837 D9 8-719-800-76 s DIODE 1SS123	R46 1-215-490-00 s METAL 750K 1% 1/4W R50 \(\Delta\)1-216-085-00 s METAL, CHIP 33K 5% 1/10\(\Pi\)
D10 8-719-800-76 s DIODE 1SS123	· · · · · · · · · · · · · · · · · · ·
D11 8-719-801-78 s DIODE 1S2837	R51
D12 8-719-933-47 s DIODE HZS7B2L D13 8-719-104-34 s DIODE 1S2836	R79 1-208-812-11 s METAL, CHIP 18K 0.5% 1/10W
D13 8-719-820-58 s DIODE 1SS177	R81 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W R82 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W
DL1 1-415-487-11 s DELAY LINE 140nS	R85 1-208-799-11 s METAL, CHIP 5.1K 0.5% 1/10W
	R86 1-208-824-11 s METAL, CHIP 56K 0.5% 1/10W

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(VF-50 BOARD)
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Ref. No.
or Q'ty Part No. SP Description
            1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
R87
R91
            1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-208-775-11 s METAL, CHIP 510 0.5% 1/10W
R92
R93
            1-215-830-11 s METAL, FILM 100K 1% 1/8W
R102
            1-237-035-11 s RES, ADJ, METAL 5K
1-237-035-11 s RES, ADJ, METAL 5K
RV1
RV2
            1-237-035-11 s RES, ADJ, METAL 5K
1-237-041-11 s RES, ADJ, METAL 500K
RV3
RV4
RV5
            1-237-035-11 s RES, ADJ, METAL 5K
            1-237-031-11 s RES, ADJ, METAL 200
RV6
            1-237-032-11 s RES, ADJ, METAL 500
1-237-032-11 s RES, ADJ, METAL 500
RV7
RV8
            1-237-038-11 s RES, ADJ, METAL 50K
RV9
T1
         △1-439-419-12 s TRANSFORMER, FLYBACK
            1-806-497-00 s VARISTOR ERZ-C05DK220
VDR1
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VP-24P BOARD

VP-24P B0	DARD
Ref. No.	Part No. SP Description
lpc lpc lpc 5pcs lpc	A-6711-992-A O MOUNTED CIRCUIT BOARD, VP-24P 3-724-706-01 O PLATE (VP-24), ORNAMENTAL 3-724-753-01 O RING 3-729-061-01 S SCREW (M2X4.5) (TYPE 1) 7-688-001-12 S W 2, MIDDLE
C1 C2 C3 C4 C26	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-126-398-11 s ELECT, CHIP 4.7uF 20% 35V 1-126-401-11 s ELECT, CHIP 1uF 20% 50V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-163-095-00 s CERAMIC, CHIP 12PF 5% 50V
C56 C83 C106 C111 C121	1-163-095-00 s CERAMIC, CHIP 12PF 5% 50V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-163-263-11 s CERAMIC 330PF 5% 50V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C123 C126 C127 C128 C129	1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-126-398-11 s ELECT, CHIP 4.7uF 20% 35V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
C147 C148 C149 C151 C161	1-163-227-11 s CERAMIC 10PF 5% 50V 1-163-251-11 s CERAMIC 100PF 5% 50V 1-126-401-11 s ELECT, CHIP 1uF 20% 50V 1-163-263-11 s CERAMIC 330PF 5% 50V 1-163-103-00 s CERAMIC, CHIP 27PF 5% 50V
C164	1-162-964-11 s CERAMIC, CHIP 1000P
CN1	1-566-960-11 o CONNECTOR, 50P, MALE
D1 D2 D3 D4 D5	8-719-123-85 s DIODE 1SS304 8-719-123-85 s DIODE 1SS304 8-719-123-85 s DIODE 1SS304 8-719-123-85 s DIODE 1SS304 8-719-911-19 s DIODE 1SS119
FB21 FB51 FB101	1-543-309-21 s BEAD, FERRITE 1-543-309-21 s BEAD, FERRITE 1-543-309-21 s BEAD, FERRITE
IC1 IC2 IC3 IC4 IC5	8-759-112-53 s IC UPC1663G 8-759-112-53 s IC UPC1663G 8-759-977-69 s IC CXD1357Q 8-759-230-99 s IC TC74HC4053AF 8-752-002-99 s IC CX20030-Z
IC6 IC7	8-759-209-90 s IC TC4S71F 8-759-239-34 s IC TC74HC4538AF
L21 L51 L101 L121 L122	1-410-703-21 s INDUCTOR, CHIP 6.8uH 1-410-703-21 s INDUCTOR, CHIP 6.8uH 1-408-778-21 s INDUCTOR CHIP 12uH 1-410-717-31 s INDUCTOR, CHIP 100uH 1-408-779-31 s INDUCTOR CHIP 15uH
L123	1-410-722-31 s INDUCTOR CHIP 270uH
Q1 Q2 Q3 Q4 Q5	8-729-141-48 s TRANSISTOR 2SB624-BV345 8-729-905-18 s TRANSISTOR DTC144EU 8-729-117-16 s TRANSISTOR 2SA1611-M6 8-729-117-32 s TRANSISTOR 2SC4177 8-729-141-48 s TRANSISTOR 2SB624-BV345
Q8 Q9	8-729-109-44 s TRANSISTOR 2SK94 8-729-109-44 s TRANSISTOR 2SK94 8-799-109-44 s TRANSISTOR 2SK94

8-729-109-44 s TRANSISTOR 2SK94

Q10

(VP-24P BOARD)	(VP-24P BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
Q11 8-729-109-44 s TRANSISTOR 2SK94 Q12 8-729-117-72 s TRANSISTOR 2SC4178 Q13 8-729-117-72 s TRANSISTOR 2SC4178 Q14 8-729-117-72 s TRANSISTOR 2SC4178 Q15 8-729-109-44 s TRANSISTOR 2SK94	R22
Q16 8-729-109-44 s TRANSISTOR 2SK94 Q17 8-729-109-44 s TRANSISTOR 2SK94 Q18 8-729-109-44 s TRANSISTOR 2SK94 Q19 8-729-117-72 s TRANSISTOR 2SC4178 Q20 8-729-117-72 s TRANSISTOR 2SC4178	R27 1-216-819-11 s METAL, CHIP 680 5% 1/16W R28 1-216-827-11 s METAL, CHIP 3, 3K 5% 1/16W R29 1-216-813-11 s METAL, CHIP 220 5% 1/16W R30 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R31 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
Q21 8-729-117-72 s TRANSISTOR 2SC4178 Q22 8-729-905-12 s TRANSISTOR DTA144EU Q23 8-729-906-33 s TRANSISTOR DTC114YU Q25 8-729-906-33 s TRANSISTOR DTC114YU Q26 8-729-905-18 s TRANSISTOR DTC144EU	R32 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R33 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R34 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R37 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R38 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
Q27 8-729-905-18 s TRANSISTOR DTC144EU Q28 8-729-905-12 s TRANSISTOR DTA144EU Q29 8-729-905-18 s TRANSISTOR DTC144EU Q30 8-729-905-18 s TRANSISTOR DTC144EU Q31 8-729-117-72 s TRANSISTOR 2SC4178	R39 1-216-817-11 s METAL, CHIP 470 5% 1/16W R40 1-216-817-11 s METAL, CHIP 470 5% 1/16W R41 1-216-815-11 s METAL, CHIP 330 5% 1/16W R42 1-216-817-11 s METAL, CHIP 470 5% 1/16W R43 1-216-813-11 s METAL, CHIP 220 5% 1/16W
Q32 8-729-117-72 s TRANSISTOR 2SC4178 Q33 8-729-117-72 s TRANSISTOR 2SC4178 Q34 8-729-117-72 s TRANSISTOR 2SC4178 Q35 8-729-117-72 s TRANSISTOR 2SC4178 Q36 8-729-117-72 s TRANSISTOR 2SC4178	R44 1-216-807-11 s METAL, CHIP 68 5% 1/16W R45 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R46 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R47 1-216-811-11 s METAL, CHIP 150 5% 1/16W R51 1-216-809-11 s METAL, CHIP 100 5% 1/16W
Q37 8-729-117-72 s TRANSISTOR 2SC4178 Q38 8-729-117-72 s TRANSISTOR 2SC4178 Q39 8-729-117-72 s TRANSISTOR 2SC4178 Q40 8-729-905-18 s TRANSISTOR DTC144EU Q41 8-729-109-44 s TRANSISTOR 2SK94	R52 1-216-809-11 s METAL, CHIP 100 5% 1/16W R53 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R54 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R55 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R56 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
Q42 8-729-109-44 s TRANSISTOR 2SK94 Q43 8-729-109-44 s TRANSISTOR 2SK94 Q44 8-729-109-44 s TRANSISTOR 2SK94 Q45 8-729-109-44 s TRANSISTOR 2SK94 Q46 8-729-109-44 s TRANSISTOR 2SK94	R57 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W R58 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W R60 1-216-833-11 s METAL, CHIP 220 5% 1/16W R61 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R61
Q47 8-729-109-44 s TRANSISTOR 2SK94 Q48 8-729-109-44 s TRANSISTOR 2SK94 Q51 8-729-117-72 s TRANSISTOR 2SC4178 Q52 8-729-117-72 s TRANSISTOR 2SC4178 Q53 8-729-905-12 s TRANSISTOR DTA144EU	R62 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R63 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R64 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R67 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R68 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
Q54 8-729-905-18 s TRANSISTOR DTC144EU Q55 8-729-906-33 s TRANSISTOR DTC114YU Q56 8-729-905-18 s TRANSISTOR DTC144EU Q57 8-729-905-12 s TRANSISTOR DTA144EU Q58 8-729-905-18 s TRANSISTOR DTC144EU	R69 1-216-817-11 s METAL, CHIP 470 5% 1/16W R70 1-216-817-11 s METAL, CHIP 470 5% 1/16W R71 1-216-817-11 s METAL, CHIP 470 5% 1/16W R72 1-216-817-11 s METAL, CHIP 470 5% 1/16W R73 1-216-813-11 s METAL, CHIP 220 5% 1/16W
Q59 8-729-905-18 s TRANSISTOR DTC144EU Q60 8-729-905-12 s TRANSISTOR DTA144EU Q61 8-729-117-72 s TRANSISTOR 2SC4178 Q62 8-729-905-18 s TRANSISTOR DTC144EU	R74 1-216-807-11 s METAL, CHIP 68 5% 1/16W R75 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R76 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R80 1-216-837-11 s METAL, CHIP 22K 5% 1/16W R81 1-216-849-11 s METAL, CHIP 22OK 5% 1/16W
R1 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R2 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R3 1-216-821-11 s METAL, CHIP 1K 5% 1/16W R4 1-216-831-11 s METAL, CHIP 6.8K 5% 1/16W R5 1-216-837-11 s METAL, CHIP 22K 5% 1/16W	R82 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R83 1-216-847-11 s METAL, CHIP 150K 5% 1/16W R84 1-216-841-11 s METAL, CHIP 47K 5% 1/16W R85 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R86 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R6 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R7 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W R8 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W R9 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R21 1-216-809-11 s METAL, CHIP 100 5% 1/16W	R87 1-216-849-11 s METAL, CHIP 220K 5% 1/16W R89 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R90 1-216-833-11 s METAL, CHIP 10K 5% 1/16W R91 1-216-833-11 s METAL, CHIP 10K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VP-24P BOARD)

```
Ref. No.
or Q'ty Part No.
                      SP Description
         1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R156
         1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R157
         1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R158
         1-216-853-11 s METAL, CHIP 470K 5% 1/16W
R159
         1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R160
         1-216-833-11 s METAL, CHIP 10K 5% 1/16W 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
R161
R162
         1-216-864-11 s METAL, CHIP 0-0HM
R163
         1-216-834-11 s METAL, CHIP 12K 5% 1/16W
R164
         1-216-849-11 s METAL, CHIP 220K 5% 1/16W
R165
         1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R166
         1-216-813-11 s METAL, CHIP 220 5% 1/16W
R168
         1-216-841-11 s METAL, CHIP 47K 5% 1/16W
R171
         1-216-821-11 s METAL, CHIP 1K 5% 1/16W
R172
         1-216-680-11 s METAL, CHIP 330 5% 1/16W
R201
         1-216-837-11 s METAL, CHIP 22K 5% 1/16W
R202
RV21
         1-230-868-11 s RES, ADJ, METAL 2.2K
         1-230-868-11 s RES, ADJ, METAL 2.2K
RV23
RV25
         1-230-868-11 s RES, ADJ, METAL 2.2K
         1-230-868-11 s RES, ADJ, METAL 2.2K
RV27
         1-230-868-11 s RES, ADJ, METAL 2.2K
RV51
RV53
         1-230-868-11 s RES, ADJ, METAL 2.2K
         1-230-868-11 s RES, ADJ, METAL 2.2K
RV55
RV57
         1-230-868-11 s RES, ADJ, METAL 2.2K
RV101
         1-230-868-11 s RES, ADJ, METAL 2.2K
         1-230-868-11 s RES, ADJ, METAL 2.2K
RV102
         1-230-870-11 s RES, ADJ, METAL 10K
RV141
S1
         1-571-275-11 s SWITCH, SLIDE
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VR-67 BOARD (Serial No. 41954 through 43999)
Ref. No.
or Q'ty Part No.
                  SP Description
         1-563-869-11 o CONTACT, FEMALE, AWG26-30
1pc
         1-563-874-11 o HOUSING, 12P
1pc
         1-625-089-11 o PRINTED CIRCUIT BOARD, VR-67
1pc
         1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W
R4
RV1
         1-238-290-11 s RES, VAR, CARBON 1K
         1-238-296-11 s RES, VAR, CARBON 10K
RV2
RV3
         1-238-293-11 s RES, VAR, CARBON 10K
         1-238-296-11 s RES, VAR, CARBON 10K
RV4
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1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W 1-216-837-11 s METAL, CHIP 22K 5% 1/16W

1-216-839-11 s METAL, CHIP 33K 5% 1/16W

1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W 1-216-827-11 s METAL, CHIP 3.3K 5% 1/16W

1-216-824-11 s METAL, CHIP 1.8K 5% 1/16W

1-216-817-11 s METAL, CHIP 470 5% 1/16W

1-216-817-11 s METAL, CHIP 470 5% 1/16W

1-216-819-11 s METAL, CHIP 680 5% 1/16W

1-216-847-11 s METAL, CHIP 150K 5% 1/16W

1-216-834-11 s METAL, CHIP 12K 5% 1/16W

1-216-853-11 s METAL, CHIP 470K 5% 1/16W

R142

R143

R144 R145

R146 R147

R148

R149

R150

R151

R152

R153

R154 R155

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VR-70 BOARD
                                                                      FRAME
Ref. No.
                                                                      Ref. No.
or Q'ty Part No.
                     SP Description
                                                                      or Q'ty Part No.
                                                                                           SP Description
                                                                               1-146-995-41 s CONVERTER, DC-DC (CD-89)
         1-562-151-11 o HOUSING, 6P
                                                                             △1-546-092-41 s 1.5" CRT ASSY
         1-569-193-11 s CONTACT
1 pc
                                                                      1pc
         1-625-553-13 o PRINTED CIRCUIT BOARD, VR-70
                                                                               1-547-259-11 o FILTER UNIT, OPTICAL
1 pc
                                                                      1 pc
                                                                               1-940-619-11 o HARNESS, SUB (ADP)
                                                                      1pc
                                                                               1-940-628-11 o HARNESS, SUB (KY)
         1-506-485-11 o CONNECTOR, 6P, MALE
CN1
                                                                      1pc
                                                                               1-945-970-11 s HARNESS (VF CABLE)
         1-230-337-11 s RES, VAR, CARBON 10K
RV1
                                                                      1pc
         1-230-337-11 s RES, VAR, CARBON 10K
                                                                               8-759-947-34 s IC LM35DZ
RV2
                                                                      1pc
         1-228-456-00 s RES, ADJ, METAL 1K
RV3
                                                                      CN1 (to CN-400 board)
                                                                               1-565-132-11 o HOUSING, 13P
                                                                               1-565-164-11 o CONTACT, FEMALE AWG26-28
                                                                      CN1 (to IF-298AP board)
                                                                               1-562-156-11 o HOUSING, 11P
                                                                               1-563-088-11 o CONTACT, FEMALE, AWG24-30
VR-77 BOARD
                                                                      CN1 (to LD-21 board)
                                                                               1-562-151-11 o HOUSING, 6P
                                                                               1-569-193-11 s CONTACT, FEMALE AWG24-30
Ref. No.
or Q'ty Part No.
                     SP Description
                                                                      CN1 (to MB-317AP board)
                                                                               1-565-129-11 o HOUSING 10P
         1-625-554-13 o PRINTED CIRCUIT BOARD, VR-77
                                                                               1-565-163-11 o TERMINAL, SOLDERLESS
100
                                                                      CNI (to PS-162 board)
                                                                               1-543-157-00 s BEAD, FERRITE
         1-223-165-00 s RES, ADJ, WIREWOUND 10K
RV1
                                                                               1-562-253-00 o HOUSING, 3P
                                                                               1-562-260-21 o CONTACT, FEMALE AWG24-28
                                                                      CNI (to SW-291 board)
                                                                               1-562-147-11 s HOUSING, 2P
                                                                               1-564-026-00 s CONTACT, FEMALE AWG26-30
                                                                      CN1 (to TC-48AP board)
VR-149 BOARD(Serial No. 44001 and higher)
                                                                               1-562-147-11 s HOUSING, 2P
Ref. No.
                                                                               1-569-193-11 s CONTACT, FEMALE AWG24-30
or Q'ty Part No.
                   SP Description
                                                                      CN2 (to CN-400 board)
         1-562-742-11 o HOUSING, 9P
                                                                               1-565-129-11 o HOUSING 10P
1pc
         1-564-832-11 o CONTACT
                                                                               1-565-164-11 o CONTACT, FEMALE AWG26-28
9pcs
         1-580-582-11 o HOUSING, 12P
                                                                      CN2 (to CN-400 board)
1pc
                                                                               1-565-126-11 o HOUSING, CONNECTOR 7P
         1-580-599-11 o CONTACT, FEMALE, AWG26-30
9pcs
                                                                               1-565-164-11 o CONTACT, FEMALE AWG26-28
         1-643-708-11 o PRINTED CIRCUIT BOARD, VR-149
1pc
                                                                      CN2 (to PS-162 board)
         1-208-822-11 s METAL, CHIP 47K 0.5% 1/10W
                                                                               1-543-157-00 s BEAD, FERRITE
R4
                                                                               1-562-255-00 o HOUSING, 5P
         1-238-290-11 s RES, VAR, CARBON 1K
                                                                               1-562-260-21 o CONTACT, FEMALE AWG24-28
RV1
         1-238-296-11 s RES, VAR, CARBON 10K
RV2
         1-238-293-11 s RES, VAR, CARBON 10K
                                                                      CN3 (to CN-400 board)
RV3
                                                                               1-565-133-11 o HOUSING, 14P
         1-238-296-11 s RES, VAR, CARBON 10K
-RV4
                                                                               1-565-164-11 o CONTACT, FEMALE AWG26-28
                                                                      CN3 (to PS-162 board)
                                                                               1-543-298-11 s BEAD, FERRITE
                                                                               1-562-148-11 s HOUSING, 3P
                                                                               1-563-088-11 o CONTACT, FEMALE, AWG24-30
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Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

BVW-300AP(EK) (BKW-301P)

CN3 (to TG-57 board)

CN4 (to CN-400 board)

CN4 (to PS-162 board)

CN5 (to IF-298AP board)

CN5 (to TG-57 board)

1-562-148-11 s HOUSING, 3P

1-565-133-11 o HOUSING, 14P

1-543-298-11 s BEAD, FERRITE

1-562-153-11 o HOUSING, 8P

1-562-148-11 s HOUSING, 3P

1-563-088-11 o CONTACT, FEMALE, AWG24-30

1-565-164-11 o CONTACT, FEMALE AWG26-28

1-562-148-11 s HOUSING, 3P 1-563-088-11 o CONTACT, FEMALE, AWG24-30

1-563-088-11 o CONTACT, FEMALE, AWG24-30

1-563-088-11 o CONTACT, FEMALE, AWG24-30

(FRAM	E)
Ref.	

No. or Q'ty Part No.

SP Description

CN7 (to PS-162 board)

1-562-252-00 o HOUSING, 2P 1-562-260-21 o CONTACT, FEMALE, AWG24-28

CN8 (to PS-162 board)

1-562-149-11 o HOUSING, 4P

1-569-193-11 s CONTACT, FEMALE AWG24-30

CN10 (to PS-162 board)

1-562-254-00 o HOUSING, 4P 1-562-260-21 o CONTACT, FEMALE AWG24-28

1-563-029-21 s CONNECTOR, XLR 3P, FEMALE "MIC" CN11

CN21 (to MB-317AP board)

1-563-869-11 o CONTACT, FEMALE, AWG26-30

1-563-878-11 o HOUSING, 20P

CN22 (to MB-317AP baord)

1-562-148-11 s HOUSING, 3P 1-569-193-11 s CONTACT, FEMALE AWG24-30

CN22 (to MB-317AP board)

1-543-298-11 s BEAD, FERRITE

1-563-869-11 o CONTACT, FEMALE, AWG26-30

1-563-874-11 o HOUSING, 12P

CN24 (to MB-317AP board)

1-543-298-11 s BEAD, FERRITE

1-562-150-11 s HOUSING, 5P 1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN25 (to MB-317AP board)

1-543-298-11 s BEAD, FERRITE

1-562-148-11 s HOUSING, 3P 1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN50 (to MB-317AP board)

1-563-869-11 o CONTACT, FEMALE, AWG26-30

1-563-875-11 o HOUSING, 14P

CN51 (to MB-317AP board)

1-563-875-11 o HOUSING, 14P 1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN52 (to MB-317AP board)

1-562-151-11 O HOUSING, 6P 1-563-088-11 O CONTACT, FEMALE, AWG24-30

CN53 (to MB-317AP board)

1-562-149-11 o HOUSING, 4P

1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN56 (to MB-317AP board)

1-562-147-11 s HOUSING, 2P 1-564-026-00 o CONTACT, FEMALE, AWG26-30

CN57 (to MB-317AP board)

1-562-150-11 s HOUSING, 5P 1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN58 (to MB-317AP board)

1-563-869-11 o CONTACT, FEMALE, AWG26-30

1-563-873-11 o HOUSING, 10P

CN59 (to KY-124 board)

1-565-129-11 o HOUSING 10P

1-565-163-11 o TERMINAL, SOLDERLESS

(FRAME)

Ref. No.

or Q'ty Part No. SP Description

CN60 (to MB-317A board)

1-562-257-00 o HOUSING, CONNECTOR 8P

1-562-260-21 o CONTACT, FEMALE AWG24-28

CN62 (to MB-317A board)

1-562-149-11 o HOUSING, 4P

1-563-088-11 o CONTACT, FEMALE, AWG24-30

1-136-189-00 s FILM 0.1uF 5% 250V C001

1-565-764-11 s CONNECTOR ASSY, BNC "VIDEO OUT-2" 1-561-233-21 s CONNECTOR, 6P, FEMALE "REMOTE" 1-564-603-11 s CONNECTOR 4P, MALE "EXT +12V" CN001

CN002

CN004

1-565-072-11 s CONNECTOR, 4P, FEMALE "DC OUT" 1-563-029-21 s CONNECTOR, XLR 3P, FEMALE CNOOS

CN006

CN007

CN014

1-563-029-21 s CONNECTOR, XLR 3P, FEMALE
1-565-764-11 s CONNECTOR ASSY, BNC "VIDEO OUT-1"
1-561-781-11 s CONNECTOR, BNC, FEMALE "TC IN"
1-561-781-21 s CONNECTOR, BNC, FEMALE "TC OUT" CN016

CN017

CN018 (to PB ADAPTOR)

1-563-970-11 o CONTACT, FEMALE, AWG26-30

1-563-971-11 s HOUSING, 20P

1-565-051-11 o CONNECTOR, 20P, FEMALE "VF" CN101

1-562-221-21 s CONNECTOR, 12P, FEMALE CN102

CN501 (to MB-317A board)

1-562-150-11 s HOUSING, 5P 1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN502 (to MB-317A board)

1-562-151-11 o HOUSING, 6P 1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN503 (to MB-317A board)

1-562-147-11 s HOUSING, 2P

1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN504 (to MB-317A board)

1-562-148-11 s HOUSING, 3P 1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN505 (to MB-317A board)

1-562-152-11 O HOUSING, 7P 1-563-088-11 O CONTACT, FEMALE, AWG24-30

CN506 (to MB-317A board)

1-562-147-11 s HOUSING, 2P

1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN507 (to MB-317A board)

1-562-147-11 s HOUSING, 2P 1-563-088-11 o CONTACT, FEMALE, AWG24-30

CN508 (to MB-317A board)

1-565-128-11 o HOUSING, CONNECTOR 9P 1-565-164-11 o CONTACT, FEMALE AWG26-28

CN509 (to MB-317A board)

1-562-147-11 s HOUSING, 2P

1-563-088-11 o CONTACT, FEMALE, AWG24-30

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(FRAME)

VER001

Ref. No. SP Description or Q'ty Part No. 8-825-749-02 s HEAD, AU PPS244-2103 8-825-560-40 s HEAD, CTL RS-253-21 H001 H002 8-825-772-61 s HEAD, ERASE EF291-21A H003 8-835-308-01 s MOTOR, DC LN18-S1N1B M001 8-835-313-01 s MOTOR, DC U-19A M002 I-249-404-00 s CARBON 82 5% 1/4W R001 1-503-293-00 s SPEAKER SP001 1-553-448-00 s SWITCH, TOGGLE SW002 1-806-504-11 s VARISTOR ERZ-C05DK820

13-4. PACKING MATERIALS AND ACCESSORIES

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q'ty Part No. SP Description A-6772-374-A s BELT ASSY, SHOULDER 1pc

A-0712-314-A S BELT ASSI, SHOULDEN A-7520-314-A O MOUNTED CIRCUIT BOARD, EX-148 X-2383-823-3 O CASE ASSY, CARRYING 2-383-835-01 O CASTER 1pc lpc 4pcs

1-542-099-11 s MICROPHONE 3-707-636-01 s SCREEN ASSY, WIND (CM-BVW200) 1pc lpc

3-725-262-03 s COVER, RAIN 1pc

13-5. OPTIONAL FIXTURE

OPTIONAL FIXTURE

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Ref. No.
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or Q'ty Part No. SP Description

- J-6001-820-A o DRUM ECCINTRICITY GAUGE (3) J-6001-830-A o DRUM ECCINTRICITY GAUGE (2)
- J-6026-100-A o RESOLUTION CHART
- J-6026-130-B o GRAY SCALE CHART
- J-6029-140-A o PATTERN BOX, PTB-500
- J-6052-450-A o WIRE CLEARANCE CHECK GAUGE
- J-6080-003-C o FED BACK TENSION MEASUREMENT CASSET
- J-6086-570-A o PLATE, PARALLEL
- J-6321-500-1 o TAPE GUIDE ADJUSTMENT DRIVER
- J-6321-880-A o CASSETTE DUMMY COVER
- J-6325-110-A o TORQUE DRIVER BIT (FOR M1.4)
- J-6325-360-A o FLATNESS CHECK TOOL
- J-6325-380-A o TORQUE DRIVER BIT (FOR M2)
- J-6325-400-B o TORQUE DRIVER (FOR 3kg)
- J-6325-530-A o DRUM ECCENTRICITY GAUGE (6)
- J-6332-290-C o SERVO REMOTE CONTROL TOOL
- J-6335-730-A o VIDEO SIGNAL INPUT BOARD
- J-6335-740-1 o EXTENSION HARNESS J-6335-940-A o REC CURRENT ADJUSTMENT TOOL
- 7-732-050-20 o TENSION SCALE (50g FULL SCALE)
- 7-732-902-00 o INSPECTION MIRROR

- 8-960-096-51 o ALIGNMENT TAPE, CR2-1B PS 8-960-096-86 o ALIGNMENT TAPE, CR8-1B PS 8-960-096-91 o ALIGNMENT TAPE, CR5-1B PS
- 8-960-098-44 o ALIGNMENT TAPE, CR5-2A PS
- 8-960-098-45 o ALIGNMENT TAPE, CR8-1A PS 9-911-053-00 o THICKNESS GAUGE

SECTION 14 CHANGED PARTS

NOTE: The number matching w	s identified by making with) are ith each serial numbers.	204) Serial No. 42004 and higher 205) Serial No. 42051 and higher 206) Serial No. 42096 and higher 207) Serial No. 42131 and higher 208) Serial No. 42157 and higher 210) Serial No. 42206 and higher 211) Serial No. 42234 and higher 301) Serial No. 42294 and higher 411) Serial No. 43003 and higher 501) Serial No. 44001 and higher 505) Serial No. 44161 and higher
AFM-6P BOARD		BI-22 BOARD
204) CV1 1 0LD) CV2 1 204) CV2 1 0LD) CV3 1	-141-370-11 s CAP, CHIP TRIMMER -141-369-52 s CAP, CHIP TRIMMER -141-370-11 s CAP, CHIP TRIMMER -141-369-52 s CAP, CHIP TRIMMER -141-370-11 s CAP, CHIP TRIMMER -141-369-52 s CAP, CHIP TRIMMER	OLD) R12 1-216-097-91 s METAL, CHIP 100K 5% 207) R12 1-216-092-00 s METAL, CHIP 62K 5%
204) CV4 1 OLD) CV101 1 204) CV101 1 OLD) CV102 1	-141-370-11 s CAP, CHIP TRIMMER -141-369-52 s CAP, CHIP TRIMMER -141-370-11 s CAP, CHIP TRIMMER -141-369-52 s CAP, CHIP TRIMMER -141-370-11 s CAP, CHIP TRIMMER -141-369-52 s CAP, CHIP TRIMMER	DLD) R12 1-216-097-91 s METAL, CHIP 100K 5% 1-216-086-00 s METAL, CHIP 36K 5%
204) CV103 1 OLD) CV104 1 204) CV104 1 OLD) R205 1	-141-370-11 s CAP, CHIP TRIMMER -141-369-52 s CAP, CHIP TRIMMER -141-370-11 s CAP, CHIP TRIMMER -141-369-52 s CAP, CHIP TRIMMER -216-825-11 s METAL, CHIP 2.2K 5% 1/16W -216-820-11 s METAL, CHIP 820 5% 1/16W	DLD) R12 1-216-097-91 s METAL, CHIP 100K 5% 207) R12 1-216-086-00 s METAL, CHIP 36K 5%
AT-49A/49C BOARD		
207) C42 1 OLD) IC14 8 501) IC14 8 OLD) 1pc 4	NOT IN USE 1-131-388-00 s CAP, TANTALUM 68 10% 6.3V 3-759-321-94 s IC HD6305Y0D67P 3-759-347-10 s IC HD6305Y0P20P 1-7513-944-A s MOUNTED CIRCUIT BOARD, AT-49A 1-8274-904-A s MOUNTED CIRCUIT BOARD, AT-49C	CN-771 BOARD OLD) NOT USED 501) 1pc 1-643-707-11 o PRINTED CIRCUIT BOARD, CN-771
OLD) C38 501) C38 OLD) C2, 4, 6, 7, 9 501) C2, 4, 6, 7, 9 OLD) C19, 31 501) C19, 31	1-135-076-21 s TANTALUM, CHIP luF 35V 1-135-159-21 s TANTALUM, CHIP luF 20V 3 1-135-093-95 s TANTALUM, CHIP 10uF 16V 9 1-135-159-21 s TANTALUM, CHIP 10uF 20V 1-135-097-21 s TANTALUM, CHIP 15uF 10V 1-135-160-71 s TANTALUM, CHIP 15uF 16V	FE-4 BOARD OLD) CP1 1-424-101-11 s TRANSFORMER, FE
OLD) C28 501) C28 OLD) C39 501) C39	1-135-127-95 s TANTALUM, CHIP 47uF 6.3V 1-135-166-21 s TANTALUM, CHIP 47uF 10V 1-135-096-21 s TANTALUM, CHIP 4.7uF 10V 1-135-214-21 s TANTALUM, CHIP 4.7uF 20V	OLD) CP1 1-424-101-11 s TRANSFORMER, FE 205) CP1 1-424-511-11 s TRANSFORMER, FE
		FL-45 BOARD
	8-759-630-27 s IC M5236ML 8-759-095-59 s IC M5237ML	OLD) 1pc 1-625-891-12 s PRINTED CIRCUIT BOARD, FL-45 FLEXIB 211) 1pc 1-625-891-13 s PRINTED CIRCUIT BOARD, FL-45 FLEXIB

OLD) 1pc 1-625-891-12 s PRINTED CIRCUIT BOARD, FL-46 FLEXIB 202) C128 1-135-161-21 s TANTAL 33uF 10% 16V 202) C128 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 211) 1pc 1-625-891-13 s PRINTED CIRCUIT BOARD, FL-46 FLEXIB 0LD) DL1 1-415-489-11 s 160nS+8nS 202) DL2 1-415-489-31 s DELAY LINE OLD) DL2 1-415-489-31 s DELAY LINE OLD) DL3 1-415-489-31 s DELAY LINE OLD) R299 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W OLD) 1pc 1-625-895-11 s PRINTED CIRCUIT BOARD, FL-57 FLEXIB OLD) R299 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 203) R299 1-216-025-00 s METAL, CHIP 100 5% 1/10W 204) R2 1-216-025-00 s METAL, CHIP 100 5% 1/10W 204) R2 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W	FL-46 BOARD		PR-176 BOARD	
FL-46 FLEXIB 202) C128 1-13-16-21 ** IANIALUM, Chip 22ur 10.8 10.7 PL-46 FLEXIB 202) DL1 1-415-489-11 ** 160nS+8nS 202) DL2 1-415-489-31 ** DELAY LINE 0LD) DL2 1-415-489-31 ** DELAY LINE 0LD) DL3 1-415-489-31 ** DELAY LINE 0LD) DL3 1-415-489-31 ** DELAY LINE 0LD) DL3 1-415-489-31 ** DELAY LINE 0LD) R29 0LD) R299 1-216-065-00 ** METAL, CHIP 4.7K 5% 1/10W 0LD) 1pc 1-625-895-11 ** PRINTED CIRCUIT BOARD, FL-57 FLEXIB 0LD) R2 1-216-025-00 ** METAL, CHIP 100 5% 1/10W 0LD) R2 1-216-037-11 ** METAL, CHIP 270 0.5% 1/10W	OLD) inc	1-625-891-12 c PRINTED CIRCUIT ROARD	OLD) C128 1-135-165-11	s TANTAL 33uF 10% 16V
202) DL1 1-415-489-31 s DELAY LINE OLD) DL2 1-415-489-31 s DELAY LINE OLD) DL3 1-415-489-31 s DELAY LINE OLD) DL3 1-415-489-31 s DELAY LINE OLD) DL3 1-415-489-31 s DELAY LINE OLD) R299 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W OLD) 1pc 1-625-895-11 s PRINTED CIRCUIT BOARD, FL-57 FLEXIB OLD) R2 1-216-025-00 s METAL, CHIP 100 5% 1/10W OLD) R2 1-216-037-11 s METAL, CHIP 270 0.5% 1/10W		FL-46 FLEXIB	202) C128 1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V s 160nS+8nS
OLD) DL2 1-415-489-31 s DELAY LINE OLD) DL3 1-415-489-11 s 160nS+8nS FL-57 BOARD OLD) R299 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W OLD) 1pc 1-625-895-11 s PRINTED CIRCUIT BOARD, FL-57 FLEXIB OLD) R2 1-216-063-01 s METAL, CHIP 100 5% 1/10W PRODUCT REPRESENTANT OF THE PROPRESENTATION OF THE P	211) lpc		202) DL1 1-415-489-31	s DELAY LINE
Cold			,	
FL-57 BOARD				c 160n918n9
OLD) 1pc 1-625-895-11 s PRINTED CIRCUIT BOARD, FL-57 FLEXIB 204) R2 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 204) R2 1-216-025-00 s METAL, CHIP 100 5% 1/10W 204) R2 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W	FL-57 BOARD		202) DL3 1-415-489-31	s DELAY LINE
OLD) 1pc 1-625-895-11 s PRINTED CIRCUIT BOARD, OLD) R2 1-216-025-00 s METAL, CHIP 100 5% 1/10W FL-57 FLEXIB 204) R2 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W				
204) 112 1 210 001 11 0 1121 21	OLD) 1pc		OLD) R2 1-216-025-00	s METAL, CHIP 100 5% 1/10W
	206) Ipc	1-625-895-21 s PRINTED CIRCUIT BOARD,	204) R2 1-216-637-11	s METAL, CHIP 270 0.5% 1/10#
FL-57 FLEXIB OLD) R98 1-216-043-00 s METAL, CHIP 560 5% 1/10\(\)		FL-57 FLEXIB	OLD) R98 1-216-043-00	s METAL, CHIP 560 5% 1/10W
204) R98 1-216-025-00 s METAL, CHIP 100 5% 1/10W OLD) R100 1-216-025-00 s METAL, CHIP 100 5% 1/10W				s METAL, CHIP 100 5% 1/10% s METAL, CHIP 100 5% 1/10W
204) R100 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W			204) R100 1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
OLD) R177 1-216-025-00 s METAL, CHIP 100 5% 1/10W IF-298 BOARD 204) R177 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W	TE-208 ROAPD		OLD) R177 1-216-025-00 204) R177 1-216-647-11	s METAL, CHIP 100 5% 1/10W
OLD) IC6 8-759-153-63 s IC CXD8154AM 204) R342 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W	OLD) TC6	8-759-153-63 s IC CXD8154AM	204) R342 1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
202) IC6 8-759-071-41 s IC CXD8154BM OLD) R343 1-216-025-00 s METAL, CHIP 100 5% 1/10W	202) IC6	8-759-071-41 s IC CXD8154BM		s METAL, CHIP 100 5% 1/10W
OLD) R66 NOT USED 204) R343 1-216-642-11 s METAL, CHIP 430 0.5% 1/10W 501) R66 1-208-799-11 s METAL, CHIP 5.1K 0.5% 1/10W OLD) R344 1-216-025-00 s METAL, CHIP 100 5% 1/10W				
OLD) 1pc A-7515-310-A s MOUNTED CIRCUIT BOARD, IF-298AP 204) R344 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W	OLD) 1pc	A-7515-310-A s MOUNTED CIRCUIT BOARD, IF-298AP		s METAL, CHIP 910 0.5% 1/10W
501) 1pc A-7515-310-B s MOUNTED CIRCUIT BOARD, IF-298AP OLD) S4 1-570-857-11 s SWITCH, SLIDE	501) lpc	A-7515-310-B S MOUNTED CIRCUIT BOARD, IF-298AP	OLD) S4 1-570-857-11	s SWITCH, SLIDE
207) S4 1-570-373-12 s SWITCH, SLIDE OLD) S5 1-570-857-11 s SWITCH, SLIDE				
207) S5 1-570-373-12 s SWITCH, SLIDE				
DLD) 1C11 NOT USED 1-40/64 BOARD 301) 1C11 1-810-067-11 s BP-020	LP-40/64 BOARI			s RP-020
				o br obt
OLD) 1pc 1-625-086-14 o PRINTED CIRCUIT BOARD, LP-40 OLD) 1C12 NOT USED 301) 1C12 1-810-066-11 s BP-021	OLD) 1pc			s BP-021
501) 1pc 1-643-704-11 o PRINTED CIRCUIT BOARD, LP-64	501) lpc	1-643-704-11 o PRINTED CIRCUIT BUARD, LP-64	301, 1012	
	·			
LP-42/65 BOARD PS-162/162B BOARD	LP-42/65 BOAR		PS-162/162B BOARD	
OLD) 1pc A-6723-368-A O MOUNTED CIRCUIT BOARD, PS-162			OLD) 1pc A-6723-368-A	o MOUNTED CIRCUIT BOARD, PS-162
OLD) IPC 1-625-087-II O PRINTED CIRCUIT BOARD, LP-42 206) IPC A-8271-736-A O MOUNTED CIRCUIT BOARD, PS-162B			206) 1pc A-8271-736-A	o MOUNTED CIRCUIT BOARD, PS-162B
501) 1pc 1-643-705-11 o PRINTED CIRCUIT BUARD, LF-65 OLD) DI 8-719-911-54 s DIODE U05E 210) DI 8-719-911-55 s DIODE U05G	001)			
OLD) D4 8-719-911-54 s DIODE U05E			OLD) D4 8-719-911-54	
210) D4 8-719-911-55 s DIODE U05G		<u>.</u>	210) 04 8-719-911-55	s prope good
LP-58/66 BOARD				
OLD) 1pc 1-635-204-12 o PRINTED CIRCUIT BOARD, LP-58	O(D) inc	1-635-204-12 o PRINTED CIRCUIT BOARD. LP-58	01/ 05/0 00/05	
501) 1pc 1-643-706-11 o PRINTED CIRCUIT BOARD, LP-66 SV-97AP BOARD			SV-97AP BUARD	
OLD) C91 1-126-629-11 s ELECT 27uF 20% 25V			OLD) C91 1-126-629-11	s ELECT 27uF 20% 25V
501) C91 1-109-893-11 s ELECT 39uF 20% 50V			501) C91 1-109-893-11	s ELECT 39uF 20% 50V
OLD) C103 1-126-630-11 s ELECT 82uF 20% 25V 501) C103 1-110-607-11 s ELECT 82uF 20% 35V				

SW-260A/562 BOARD

OLD)	lpc	1-625-088-13 o	PRINTED	CIRCUIT	BOARD,	SW-260A
501)	•	1-643-709-11 o	PRINTED	CIRCUIT	BOARD,	SW-562

SY-117CP BOARD

OLD)	R214	1-216-864-11	s	METAL, CHIP 0-0H
204)	R214	NOT IN USE		
OLD)	IC6	8-759-201-61	S	IC TC40H004F
208)	IC6	8-759-927-29	s	IC SN74HCUO4ANS

TC-48AP/48BP BOARD

OLD)	A-6713-371-A	0	MOUNTED	CIRCUIT	BOARD,	TC-48AP
206)	A-8271-733-A	0	MOUNTED	CIRCUIT	BOARD,	TC-48BP

VDA-11P BOARD

		1-141-311-11 s CAR, TRIMMER 20PF
		1-141-423-21 s CAP, ADJ
OLD)	CV2	1-141-311-11 s CAR, TRIMMER 20PF
204)	CV2	1-141-423-21 s CAP, ADJ
OLD)	CV3	1-141-311-11 s CAR, TRIMMER 20PF
	CV3	1-141-423-21 s CAP, ADJ
2017		
OLD)	CV4	1-141-311-11 s CAR, TRIMMER 20PF
204)	CV4	1-141-423-21 s CAP, ADJ
		1-141-311-11 s CAR, TRIMMER 20PF
204)	CV11	1-141-423-21 s CAP, ADJ
		1-141-311-11 s CAR, TRIMMER 20PF
204)		1-141-423-21 s CAP, ADJ
201)	0.12	
OLD)	CV13	1-141-311-11 s CAR, TRIMMER 20PF
204)	CV13	1-141-423-21 s CAP, ADJ
		1-141-311-11 s CAR, TRIMMER 20PF
		1-141-423-21 s CAP, ADJ
OLD)	1 pc	A-6711-993-A O MOUNTED CIRCUIT BOARD, VDA-11P
505)	1pc	A-6711-993-B o MOUNTED CIRCUIT BOARD, VDA-11P

VF-32/50 BOARD

OLD)	1pc	A-7513-642-B s MOUNTED CIRCUIT BOARD,	VF-32
501)	1pc	A-8271-332-A s MOUNTED CIRCUIT BOARD,	VF-50

VP-24P BOARD

OLD) 207) OLD)	C164 C164 D5	NOT IN USE 1-162-964-91 s CERAMIC CHIP 1000PF NOT IN USE
207)	D5	8-719-911-19 s DIODE 1SS119
OLD)	R107	1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
207)	R107	1-215-433-00 s METAL, CHIP 3.3K
OLD)	R108	1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W
207)	R108	1-218-484-11 s METAL, CHIP 750
OLD)	R201	1-216-819-11 s METAL, CHIP 680 5% 1/16W
207)	R201	1-218-680-11 s METAL, CHIP 330
OLD)	IC5	8-759-932-14 s IC CX20030-Z
411)	IC5	8-752-002-99 s IC CX20030-Z

VR-67/149 BOARD

OLD)	1nc	1-625-089-11 o PRINTED CIRCUIT BOARD, VR	-67
501)		1-643-708-11 o PRINTED CIRCUIT BOARD, VR	